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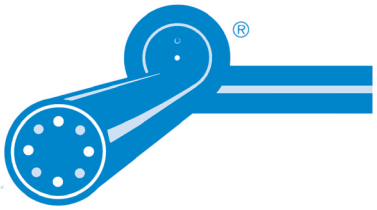
CORPORATION

Product Catalog

INDUSTRIAL | COMMERCIAL | CUSTOM APPLICATIONS



"A Word To The Wise Is Custom - ize" ™

Alphabetical Index Guide

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NOTES

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ACKNOWLEDGMENTS

Information in this catalog has been drawn from other catalogs and authoritative industry sources. These include publications from AFC Cable Systems, Alcan, American Insulated Wire, BICC/General Cable, BIW/Tamaqua, Brand-Rex, Cable USA, Carol Cable Corp., Chromatic Technologies, Essex, First Capital, General Cable Corp., Hendricks, Lake Cable, Miller Wire and Cable, Nexans Energy, Rome, Service Wire, and Southwire. Also, we have included data from the American Society for Testing and Materials (ASTM), Canadian Standards Association (CSA), Institute of Electrical and Electronic Engineers (IEEE), Insulated Cable Engineers Association (ICEA), National Electrical Manufacturers Association (NEMA), Underwriters Laboratory (UL) and countless others.

Custom Cable Corp.

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GENERAL INDEX

Since 1974, **Custom Cable Corp.** has been a single source for all types of electrical and electronic wire and cable.

Today, we are recognized as a leading supplier to our valued customers with over 15,000 variations of wire and cable from stock. From Emergency to Just-In-Time shipments, **Custom Cable Corp.** is only a phone call away.

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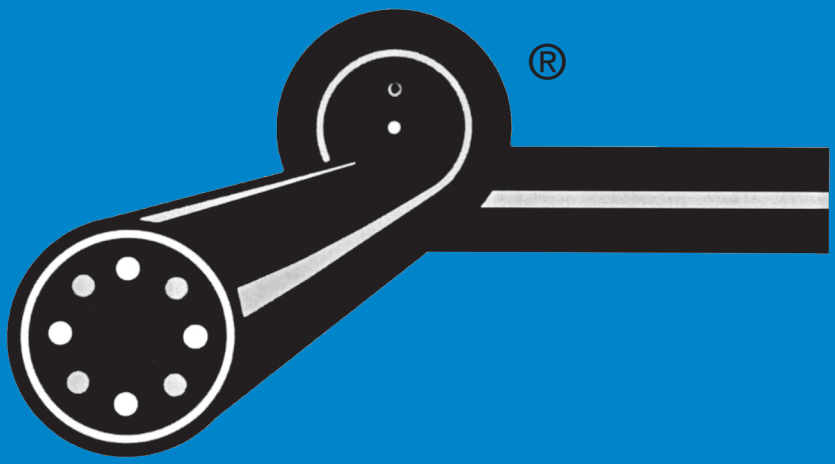
BARE COPPER AND WEATHERPROOF WIRE

INCLUDING CATHODIC PROTECTION CABLE AND COPPER SERVICE DROP

A



BARE COPPER

SOLID & STRANDED BARE COPPER
SOFT - MEDIUM - HARD DRAWN

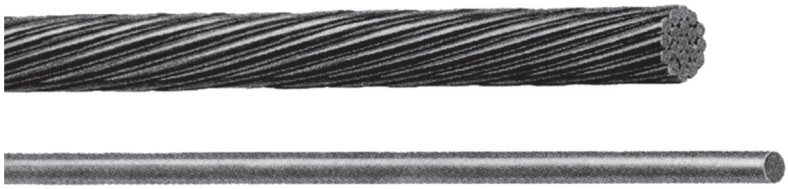
A

Construction

SOLID:
- ASTM B-1-HD TEMPER UL.
- ASTM B-2-MHD TEMPER UL.
- ASTM B-3-SD TEMPER UL.
- ASTM B-33 TINNED SOFT OR ANNEALED.

STRANDED:
- ASTM B-8-ALL TEMPERS UL.
- CONCENTRIC LAY UL.

Application:
- Solid or stranded (MHD) or (HD) for use overhead.
- Outdoors on insulators for distribution.
- Circuits stranded (MHD) or (SD) for grounding.
- Round solid (HD) for Trolley wire.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL O. D. INCHES	NOMINAL WEIGHT LBS./MFT
SOLID COPPER CONDUCTOR - HARD DRAWN				
26300	14	Solid	0.064	12
26301	12	Solid	0.081	20
26302	10	Solid	0.102	31
26303	8	Solid	0.129	50
26304	6	Solid	0.162	79
26305	4	Solid	0.204	126
26306	2	Solid	0.258	201
SOLID COPPER CONDUCTOR - SOFT DRAWN				
26320	8	Solid	0.129	50
26321	6	Solid	0.162	79
26322	4	Solid	0.204	126
26323	2	Solid	0.257	201
STRANDED COPPER CONDUCTOR - SOFT DRAWN				
26370	8	7	0.146	51
26371	6	7	0.184	81
26372	4	7	0.232	129
26373	2	7	0.292	205
26374	1	19	0.332	259
26375	1/0	19	0.373	326
26376	2/0	19	0.419	411
26377	3/0	19	0.470	518
26378	4/0	19	0.528	653
26379	250	37	0.575	772
26380	300	37	0.630	926
26381	350	37	0.681	1081
26382	400	37	0.728	1235
26383	500	37	0.813	1544
26384	600	37	0.893	1853
26385	750	61	0.998	2316
26386	1000	61	1.152	3088

NOTE: Also available in tinned copper.
Add “T” suffix for part number.
Check factory for availability.

WEATHERPROOF LINE WIRE HMWPE COPPER BUS BAR - TYPES-QQ-W-343-D, TYPES-ASTM-B-33

Construction

Description:

- Copper conductor, solid or stranded, soft (annealed), medium hard, or hard drawn, covered with black high molecular weight polyethylene (HMWPE).

Applications:

- For use in overhead distribution systems where protection from environmental elements is required.

Standards:

- Line wire conforms to ASTM standards:
  (a) B-1 (Hard Drawn).
  (b) B-2 (Medium Hard Drawn).
  (c) B-3 (Soft or Annealed).
  (d) B-8 (Concentric Stranded Copper).
  (e) Line wire conforms to ANSI C8.35.

CUSTOM CATALOG NUMBER	SIZE	STRAND	COVERING THICKNESS	NOMINAL O.D.	DC RESISTANCE (OHMS PER 1000 ft.) @ 20°C			CURRENT	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	HARD DRAWN	MEDIUM HARD	SOFT (ANNEALED)	AMPS*	LBS/MFT
WEATHERPROOF LINE WIRE									
29600	6	Solid	0.030	0.220	.4110	.4088	.3952	130	87
29602	4	Solid	0.030	0.260	.2584	.2571	.2485	163	135
29604	4	7	0.030	0.290	.2636	.2622	.2540	163	139
29606	2	Solid	0.045	0.350	.1625	.1617	.1563	219	218
29608	2	7	0.045	0.380	.1660	.1650	.1590	219	224
29610	1	7	0.045	0.420	.1316	.1309	.1265	258	284
29612	1/0	7	0.060	0.490	.1042	.1037	.1002	297	358
29614	2/0	7	0.060	0.530	.0826	.0822	.0795	344	446
29616	3/0	7	0.060	0.580	.0655	.0652	.0630	401	557
29618	4/0	7	0.060	0.640	.0519	.0517	.0499	466	696
29620	250	37	0.060	0.700	.0440	.0438	.0423	519	819
29622	350	37	0.060	0.800	.0314	.0313	.0302	665	1136
29624	500	37	0.075	0.970	.0220	.0219	.0212	812	1626
29626	750	61	0.075	1.160	.0146	.0146	.0141	1050	2415
29628	1000	61	0.095	1.340	.0110	.0109	.0106	1253	3234

* Per NEC Table B-310-4. Based on conductor temperature of 80°C; ambient temperature of 40°C; 2 ft./sec. wind.

NOTE: Conductor hardness must be specified when ordering. (Hard Drawn, Medium Hard Drawn or Soft Drawn)

Construction

Description:

- Soft drawn annealed electrolytic solid tinned copper.

Applications:

- Bus-bar.
- Component leads.
- Ground wire.
- Point to point wiring.
- Winding of coils.

- **Also available in bare copper. Please specify when ordering.**

CUSTOM CATALOG NUMBER	SIZE	NOMINAL CIRCULAR AREA	NOMINAL O. D.	NOMINAL WEIGHT
	AWG/MCM	MILS	INCHES	LBS./MFT
1010	30	100	0.010	.3
1011	28	160	0.013	.5
1012	26	254	0.016	.9
1013	24	404	0.020	1.3
1014	22	642	0.026	2
1015	20	1022	0.033	3
1016	18	1642	0.041	5
1017	16	2583	0.051	8
1018	14	4107	0.065	13
1019	12	6530	0.082	21

CATHODIC PROTECTION CABLE

TYPE CP COPPER CONDUCTOR, 600 VOLT

A

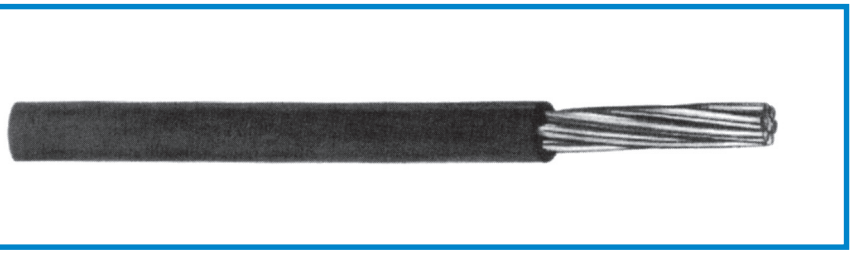
Construction

Conductor:
- Stranded annealed copper conductor.

Insulation:
- Extruded combined insulation jacket wall of low density high molecular weight black polyethylene (HMW-PE).

Application:
- Type CP cables are used in cathodic systems for the prevention of electrolytic corrosion for a wide variety of metallic constructions such as underground pipelines, steel piles, lock gates and dams, traveling screens, pipe type cables, cable messengers, slaughterhouse tanks and mothballed ships.

Features:
- Excellent flexibility at low temperature.
- Suitable for installation under subzero conditions.
- The HMW-PE covering provides maximum protection against electrolytic-galvanic corrosion by combining outstanding dielectric strength with excellent moisture and abrasion resistance.
- Ideal for D.C. operation in wet locations.
- Highly resistant to corrosive chemicals, water, salt and most organic and inorganic substances.
- Direct burial.
- Sunlight resistant.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. JACKET THICKNESS	NOMINAL O. D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	LBS./MFT
26401	8	7	0.106	0.360	90
26402	6	7	0.110	0.410	125
26403	4	7	0.110	0.460	180
26404	2	7	0.110	0.520	270
26405	1	19	0.125	0.580	335
26406	1/0	19	0.125	0.620	410
26407	2/0	19	0.125	0.670	505
26408	3/0	19	0.125	0.720	620
26409	4/0	19	0.125	0.780	770
26410	250	37	0.155	0.890	925
26411	350	37	0.155	0.990	1260

COPPER SERVICE DROP 600 VOLT

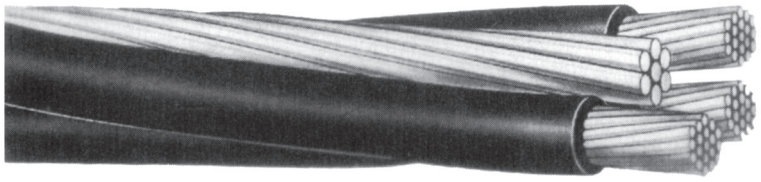
Construction

Description:

- The conductors are Class B strand, bare soft drawn copper insulated with heat and moisture resistant cross-linked polyethylene. The neutral is solid or stranded, bare hard drawn copper.

Industry Approvals:

- ASTM B-1 (Hard Drawn).
- ASTM B-3 (Soft Drawn or Annealed).
- ASTM B-8 (Concentric-lay strand).
- ICEA S66-524.
- Conductor rated at 90°C.



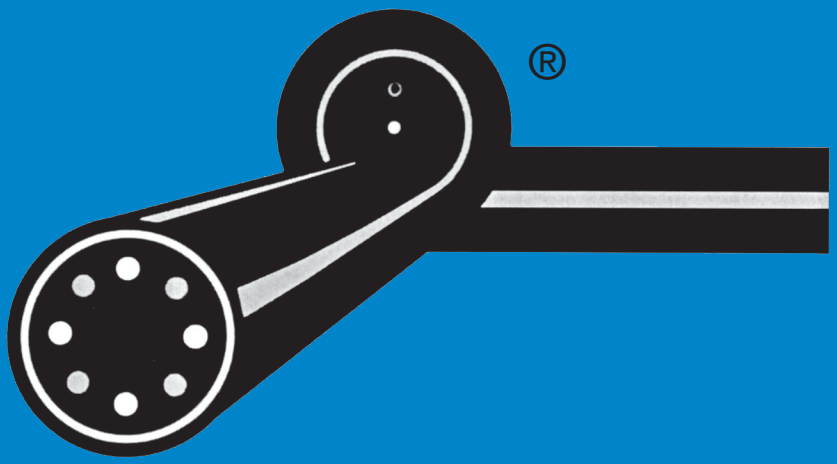
CUSTOM CATALOG NUMBER	CODE NAME	SIZE	STRAND	NOM. INSUL. THICKNESS	NEUTRAL MESSENGER		CURRENT	NOMINAL WEIGHT
		AWG/MCM		INCHES	HARD DRAWN SIZE (AWG)	STRAND	AMPS*	LBS/MFT
TRIPLEX (2 INSULATED - 1 BARE)								
29500	Bodoni	8	7	0.045	8	1	66	185
29502	Garamond	8	7	0.045	8	7	66	185
29504	Futura	6	7	0.045	6	1	89	281
29506	Gothic	6	7	0.045	6	7	89	281
29508	Ionic	4	7	0.045	4	1	117	435
29510	Caslon	4	7	0.045	4	7	117	435
29512	Century	2	7	0.045	2	7	158	677
29514	Corinthian	1/0	19	0.055	1/0	7	214	1042
29516	Doric	2/0	19	0.055	2/0	7	247	1315
29518	Tuscan	3/0	19	0.055	3/0	7	287	1632
29520	Composite	4/0	19	0.055	4/0	7	335	2057
QUADRUPLEX (3 INSULATED - 1 BARE)								
29550	Atlanta	6	7	0.045	6	1	89	381
29552	Tallahassee	6	7	0.045	6	7	89	381
29554	Baton Rouge	4	7	0.045	4	1	117	588
29556	Richmond	4	7	0.045	4	7	117	588
29558	Jackson	2	7	0.045	2	1	158	913
29560	Seattle	2	7	0.045	2	7	158	913
29562	Nashville	1/0	19	0.055	1/0	7	214	1415
29564	Lincoln	2/0	19	0.055	2/0	7	247	1767
29566	Raleigh	3/0	19	0.055	3/0	7	287	2194
29568	Denver	4/0	19	0.055	4/0	7	335	2759

* Per NEC B-310-2. Ampacity figures are based on conductor temperature of 90°C, Ambient temperature of 40°C.

UL® LISTED

BUILDING WIRE AND POWER TELECOMMUNICATIONS CABLE

B



BUILDING WIRE

TYPE THW — PVC INSULATION, 600 VOLT

B

Construction

Conductor:
- Annealed uncoated copper conductor, PVC insulation, surface printed.

Applications:
- General purpose wiring for lighting and power - residential, commercial, industrial buildings in accordance with the NEC, maximum conductor temperature of 75°C in wet or dry locations, for circuits not exceeding 600 volts.

Industry Approvals:
- Listed by UL as Type THW per Standard 83.
- All sizes carry the VW-1 flame test designation.
- Listed by UL as Oil Resistant I.
- Listed by UL as Sunlight Resistant (250 MCM and larger, black only).
- 250 MCM and larger pass UL and IEEE-383 ribbon burner flame test and are listed For CT Use.
- Conforms to Federal Specification J-C-30B.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O. D. INCHES	CURRENT AMPS*	NOMINAL WEIGHT LBS./MFT
			SOLID			
15000	14	Solid	0.045	0.160	20†	23
15001	12	Solid	0.045	0.170	25†	32
15002	10	Solid	0.045	0.200	35†	46
15003	8	Solid	0.060	0.270	50	75
			STRANDED			
15004	14	7	0.045	0.170	20†	24
15005	12	7	0.045	0.190	25†	33
15006	10	7	0.045	0.210	35†	47
15007	8	7	0.060	0.270	50	75
15008	6	7	0.060	0.300	65	107
15009	4	7	0.060	0.350	85	162
15010	2	7	0.060	0.410	115	247
15011	1	19	0.080	0.490	130	335
15012	1/0	19	0.080	0.530	150	410
15013	2/0	19	0.080	0.570	175	500
15014	3/0	19	0.080	0.620	200	620
15015	4/0	19	0.080	0.680	230	770
15016	250	37	0.095	0.750	255	915
15017	300	37	0.095	0.810	285	1095
15018	350	37	0.095	0.860	310	1260
15019	400	37	0.095	0.900	335	1420
15020	500	37	0.095	0.980	380	1760
15021	600	61	0.110	1.090	420	2115
15022	750	61	0.110	1.190	475	2605
15023	1000	61	0.110	1.340	545	3430

* Ampacity in accordance with NEC for not more than three conductors in raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

TYPE THWN OR THHN — PVC INSULATION, NYLON JACKET, 600 VOLT

Construction

Conductor:

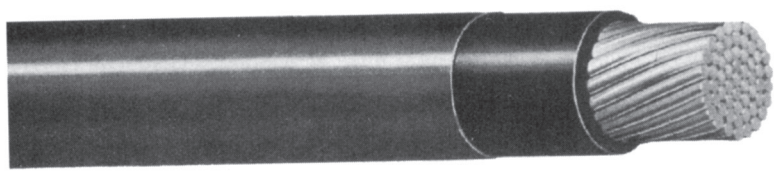
- Annealed uncoated copper conductor, PVC insulation, nylon jacket, surface printed.

Applications:

- General purpose wiring in accordance with the NEC, maximum conductor temperature of 90°C in dry locations and 75°C in wet locations, 600 volts, for installation in conduit or other recognized raceway.
- Also used for wiring of machine tools (stranded), appliances, and control circuits not exceeding 600 volts.

Industry Approvals:

- Listed by UL as type THHN or THWN per Standard 83, and as Type MTW per Standard 1063 (stranded items).
- Listed by UL as Gasoline and Oil Resistant II.
- Listed by UL as Sunlight Resistant (1/0 AWG and larger, black only).
- 1/0 AWG and larger pass UL and IEEE-383 ribbon burner flame test and are listed for CT Use.
- Listed by UL as 105°C Appliance Wiring Material, 80°C where exposed to oil.
- Conforms to Federal Specification J-C-30B.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS (INCHES) PVC. INSUL.	NOM. INSUL. THICKNESS (INCHES) NYLON JACKET	NOMINAL O.D. INCHES	CURRENT (AMPS*) 75°C THWN	CURRENT (AMPS*) 90°C THHN	NOMINAL WEIGHT LBS/MFT
SOLID (THWN OR THHN) (TFN 18 & 16 SOLID)								
15047	18	Solid	0.015	0.004	0.082	**6	**6	7
15049	16	Solid	0.015	0.004	0.093	**8	**8	11
15050	14	Solid	0.015	0.004	0.110	20†	25†	17
15051	12	Solid	0.015	0.004	0.130	25†	30†	25
15052	10	Solid	0.020	0.004	0.160	35†	40†	39
STRANDED (MTW OR THWN OR THHN) (TFFN 18 & 16 STR)								
15048	18[1]	16	0.015	0.004	0.090	**6	**6	8
15053	16[1]	26	0.015	0.004	0.100	—	10†	12
15054	14	19	0.015	0.004	0.120	20†	25†	18
15055	12	19	0.015	0.004	0.140	25†	30†	26
15056	10	19	0.020	0.004	0.170	35†	40†	41
15057	8	19	0.030	0.004	0.230	50	55	71
15058	6	19	0.030	0.005	0.250	65	75	99
15059	4	19	0.040	0.006	0.330	85	95	168
15060	3	19	0.040	0.006	0.360	100	110	204
15061	2	19	0.040	0.006	0.390	115	130	254
15062	1	19	0.050	0.007	0.450	130	150	319
15063	1/0	19	0.050	0.007	0.500	150	170	395
15064	2/0	19	0.050	0.007	0.540	175	195	485
15065	3/0	19	0.050	0.007	0.600	200	225	600
15066	4/0	19	0.050	0.007	0.660	230	260	745
15067	250	37	0.060	0.008	0.720	255	290	905
15068	300	37	0.060	0.008	0.770	285	320	1060
15069	350	37	0.060	0.008	0.830	310	350	1225
15070	400	37	0.060	0.008	0.870	335	380	1380
15071	500	37	0.060	0.008	0.960	380	430	1725
15072	600	61	0.070	0.009	1.060	420	475	2090
15074	750	61	0.070	0.009	1.170	475	535	2580
15075	1000	61	0.070	0.009	1.320	545	615	3430

* Ampacity in accordance with NEC for not more than three conductors in raceway.
As THHN: 90°C conductor temperature and 30°C ambient in dry locations.
As THWN: 75°C conductor temperature and 30°C ambient in wet or dry locations.

** TFN, TFFN when used as a fixture wire is limited to these ampacities per Article 402-5 in 1996 NEC.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

1 Not listed as THHN - only as 105°C AWM - 90°C MTW.

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TYPE XHHW-2 — XLP INSULATION, 600 VOLT

Construction

Conductor:

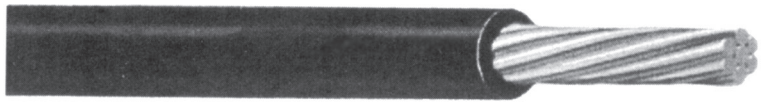
- Annealed uncoated copper conductor, XLP thermosetting chemically crosslinked polyethylene insulation, surface printed.

Applications:

- General purpose wiring for lighting and power - residential, commercial, industrial buildings in accordance with NEC, maximum conductor temperature of 90°C in wet or dry locations, 600 volts, for installation in conduit or other recognized raceways.
- Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less, such as isolated circuits supplying anesthetizing locations per Article 517-160 of the NEC.
- Suitable for use as low leakage inductive (loop) vehicle detector wire in accordance with state and municipal requirements.

Industry Approvals:

- Listed by UL as Type XHHW-2 per UL Standard 44 for Rubber Insulated Wires and Cables.
- Conforms to ICEA Pub. No. S-66-524, utilizing column B thicknesses.
- Conforms to Federal Specification J-C-30B.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	NOMINAL O. D.	CURRENT (AMPS*)		NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	75˚C	90˚C	LBS./MFT
	SOLID						
15150	14	Solid	0.030	0.140	20†	25†	21
15151	12	Solid	0.030	0.160	25†	30†	31
15152	10	Solid	0.030	0.180	35†	40†	45
	STRANDED						
15153	14	7	0.030	0.140	20†	25†	19
15154	12	7	0.030	0.160	25†	30†	28
15155	10	7	0.030	0.180	35†	40†	41
15156	8	7	0.045	0.240	50	55	67
15157	6	7	0.045	0.280	65	75	105
15158	4	7	0.045	0.320	85	95	160
15159	2	7	0.045	0.380	115	130	245
15160	1	19	0.055	0.440	130	150	310
15161	1/0	19	0.055	0.480	150	170	380
15162	2/0	19	0.055	0.520	175	195	470
15163	3/0	19	0.055	0.580	200	225	590
15164	4/0	19	0.055	0.630	230	260	730
15165	250	37	0.065	0.700	255	290	865
15166	300	37	0.065	0.750	285	320	1050
15167	350	37	0.065	0.800	310	350	1210
15168	400	37	0.065	0.850	335	380	1370
15169	500	37	0.065	0.930	380	430	1710
15170	600	61	0.080	1.040	420	475	2080
15171	750	61	0.080	1.140	475	535	2545
15172	1000	61	0.080	1.290	545	615	3380

* Ampacity in accordance with NEC for not more than three conductors in raceway at the conductor temperature indicated, in wet or dry locations. 30°C ambient temperature.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

TYPE USE-2 OR RHW-2 OR RHH — XLP INSULATION, 600 VOLT

Construction

Conductor:

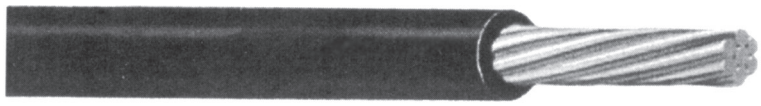
- Annealed uncoated copper conductor, XLP thermosetting chemically crosslinked polyethylene insulation, surface printed.

Applications:

- For lighting and power applications in accordance with the NEC and for other general purpose wiring applications.
- Suitable for use in circuits not exceeding 600 volts at conductor temperatures not exceeding 90°C in wet or dry locations.
- May be installed in raceway, duct, direct burial and aerial installations.

Industry Approvals:

- Listed by UL as type USE-2 (90°C wet or dry) per Standard 854 for Service Entrance Cables.
- Listed by UL as Types RHW-2 (90°C wet or dry) or RHH (90°C dry) per Standard 44.
- Conforms to ICEA Pub. No. S-66-524, utilizing Column A Insulation thicknesses.
- Conforms to Federal Specification J-C-30B.
- Sizes 12-4 AWG stranded copper approved under FAA Advisory Circular 150/5345-7D per Spec L-824 Airport Lighting Cable, Type C.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	NOMINAL O. D.	CURRENT (AMPS)		NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	90˚C* USE-2 RHW-2 RHH	75˚C** USE RHW	LBS/MFT
	SOLID						
15100	12	Solid	0.045	0.180	30†	25†	33
15101	10	Solid	0.045	0.200	40†	35†	46
	STRANDED						
15102	12	7	0.045	0.190	30†	25†	33
15103	10	7	0.045	0.210	40†	35†	49
15104	8	7	0.060	0.270	55	50	79
15105	6	7	0.060	0.310	75	65	115
15106	4	7	0.060	0.360	95	85	175
15107	2	7	0.060	0.410	130	115	255
15108	1	19	0.080	0.490	150	130	330
15109	1/0	19	0.080	0.530	170	150	405
15110	2/0	19	0.080	0.580	195	175	495
15111	3/0	19	0.080	0.630	225	200	615
15112	4/0	19	0.080	0.680	260	230	765
15113	250	37	0.095	0.760	290	255	925
15114	300	37	0.095	0.810	320	285	1090
15115	350	37	0.095	0.860	350	310	1250
15116	400	37	0.095	0.910	380	335	1410
15117	500	37	0.095	0.990	430	380	1760
15118	600	61	0.110	1.100	475	420	2110
15119	750	61	0.110	1.200	535	475	2600
15120	1000	61	0.110	1.350	615	545	3420

* Ampacity in accordance with NEC for not more than three conductors. As RHW-2: In raceway, 90°C conductor temperature and 30°C ambient in wet or dry locations. As RHH: In raceway, 90°C conductor temperature and 30°C ambient in dry locations. As USE-2: Direct burial, 90°C conductor temperature and 30°C ambient in wet locations.

** Ampacity in accordance with NEC for not more than three conductors. As RHW: In raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations. As USE: Direct burial, 75°C conductor temperature and 30°C ambient in wet locations.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

UL® LISTED

DIRECT BURIAL

TYPE USE-2 OR RHW-2 OR RHH, VW-1, EPR-HYPALON® (COMPOSITE), 600 VOLT

B

Construction

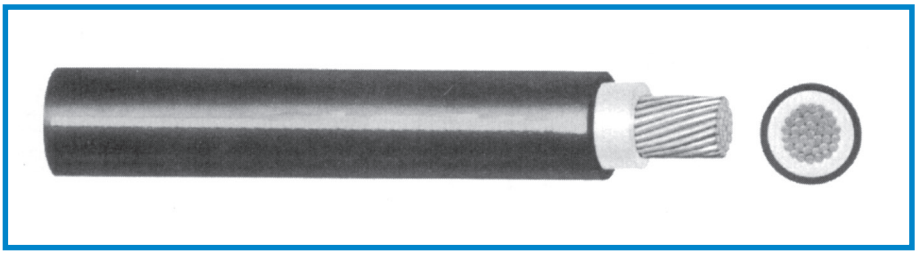
Conductor:
- Annealed uncoated copper conductor.

Insulation:
- EPR (ethylene-propylene-rubber).

Jacket:
- HYPALON® surface printed.

Applications:
- For lighting and power applications in accordance with the NEC and for other general purpose wiring applications. Suitable for use in circuits not exceeding 600 volts at conductor temperatures not exceeding 90°C in wet or dry locations. May be installed in raceway, duct, cable tray, direct burial and aerial installations.

Industry Approvals:
- UL Listed as Type USE-2 (90°C wet or dry) per Standard 854 for Service Entrance Cables.
- UL Listed as Types RHW-2 (90°C wet or dry) or RHH (90°C dry) per Standard 44.
- All sizes carry the VW-1 flame test designation.
- Cables are UL listed as Sunlight Resistant (1/0 AWG and larger).
- Size 1/0 AWG and larger pass UL and IEEE-383 ribbon burner flame test and are UL listed for CT Use.
- Conforms to ICEA Pub. No. S-68-516/NEMA WC8 for Ethylene propylene-rubber insulated cable.
- Conforms to Federal Specification J-C-30B.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	CURRENT (AMPS) 90°C* USE-2 RHW-2 RHH	CURRENT (AMPS) 75°C** USE RHH	CURRENT (AMPS) 90°C*** USE-2 RHW-2	NOMINAL WEIGHT LBS/MFT
34003	12	7	0.030	0.015	0.200	30†	25†	—	35
34005	10	7	0.030	0.015	0.220	40†	35†	—	50
34007	8	7	0.045	0.015	0.290	55	50	—	80
34008	6	7	0.045	0.030	0.350	75	65	—	125
34009	4	7	0.045	0.030	0.390	95	85	—	180
34011	2	7	0.045	0.030	0.460	130	115	—	270
34012	1	19	0.055	0.045	0.550	150	130	—	360
34013	1/0	19	0.055	0.045	0.590	170	150	169	435
34014	2/0	19	0.055	0.045	0.640	195	175	195	530
34015	3/0	19	0.055	0.045	0.690	225	200	228	650
34016	4/0	19	0.055	0.045	0.750	260	230	263	805
34017	250	37	0.065	0.065	0.850	290	255	296	980
34019	350	37	0.065	0.065	0.950	350	310	371	1320
34021	500	37	0.065	0.065	1.080	430	380	455	1825
34024	750	61	0.080	0.065	1.300	535	475	664	2690
34026	1000	61	0.080	0.065	1.460	615	545	791	3520

* AMPACITY in accordance with NEC for not more than three conductors. As RHW-2: In raceway, 90°C conductor temperature and 30°C ambient in wet or dry locations. As RHH: In raceway 90°C conductor temperature and 30°C ambient in dry locations. As USE-2: direct burial, 90°C conductor temperature and 30°C ambient in wet locations.

** AMPACITY in accordance with NEC for not more than three conductors. As RHW: In raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations. As USE: direct burial, 75°C conductor temperature and 30°C ambient in wet locations.

*** AMPACITY in accordance with NEC for cables installed in uncovered cable tray without maintained spacing, 90°C conductor temperature and 30°C ambient in wet or dry locations.

† The over current protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper.

NOTES:
1. Jackets available in black only.
2. 14 AWG is not approved as Type USE.
3. Also available in 2kV rating.
4. Sizes 12-4 AWG copper approved under FAA Advisory Circular 150/5345-7D per Spec L-824 Airport Lighting Cable, Type B.
5. HYPALON® is a Dupont synthetic rubber.

UL® LISTED

Passes UL VW-1 Flame Test — Passes UL-VW-1 Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

SERVICE ENTRANCE TYPE SE, STYLE R — COPPER

90˚C DRY, 75˚C WET, NEC® ARTICLE 338, 600 VOLT

B

Construction

Conductor:
- Fully annealed class B copper per ASTM B-3 and ASTM B-8 or B-787.

Insulation:
- Color coded PVC (polyvinyl chloride) with a nylon jacket per UL 83 for Type THHN/THWN.

Conductor Identification:
- Base colored insulation: black, white, red.

Bare Conductor:
- Stranded bare ground.

Tape:
- Fiberglass reinforced binder tape.

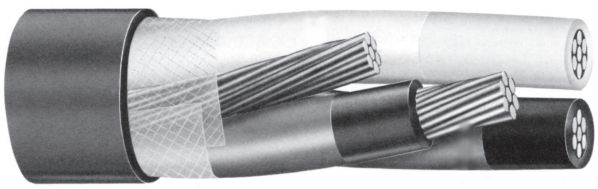
Jacket:
- Gray PVC (polyvinyl chloride).

Applications:
- Above ground service entrance, panel feeder in multiple dwellings, range and dryer and other branch circuits.
- Maximum operating temperature of phase conductors not to exceed 90°C for dry locations or 75°C for wet locations.
- 600 volts, approved for use as specified by the NEC®.

Features:
- Color coded phase conductors.
- Single ground wire, not segmented.
- Fiberglass reinforced tape under the outer jacket.
- Sunlight and moisture resistant, flame retardant jacket.

Industry Approvals:
- UL Standard 854.
- Federal Specification JC-30B.
- NEC® Articles 230, 310, and 338 (NFPA 70).

Packaging:
- 500, 1000 ft. reels.



CUSTOM CATALOG NUMBER	COND. SIZE AWG	NO. OF STRANDS	GROUND WIRE SIZE	O.D. (INCHES)	SHIPPING WT. LBS/MFT
15260	8/3	7	8	.640	290
15261	6/3	7	6	.665	432
15262	4/3	7	6	.830	601
15263	3/3	7	5	.895	737
15264	2/3	7	4	.970	911
15265	1/3	19	3	1.100	1151
15266	1/0-3	19	2	1.200	1417
15267	2/0-3	19	1	1.310	1768
15268	3/0-3	19	1/0	1.430	2186
15269	4/0-3	19	2/0	1.610	2729

To determine ampacity by conductor size, please consult the National Electrical Code, latest edition. The above data are approximate and subject to normal manufacturing tolerances.

UL® LISTED

SERVICE ENTRANCE TYPE SE, STYLE U — COPPER

90˚C DRY, 75˚C WET, NEC® ARTICLE 338, 600 VOLT

B

Construction

Conductor:
- Fully annealed class B copper per ASTM B-3 and ASTM B-8 or B-787.

Insulation:
- Color coded PVC (polyvinyl chloride) with a nylon jacket per UL 83 for Type THHN/THWN.

Conductor Identification:
- Base colored insulation: black and red.

Bare Conductor:
- Uninsulated concentric neutral served around parallel phase conductors.

Tape:
- Fiberglass reinforced binder tape.

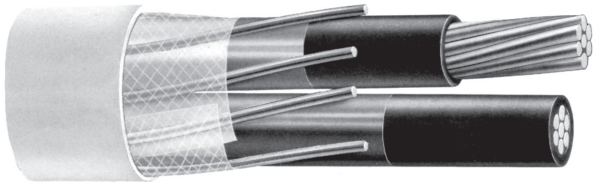
Jacket:
- Gray PVC (polyvinyl chloride).

Applications:
- Above ground service entrance and branch circuit.
- Maximum operating temperature of phase conductors not to exceed 90°C for dry locations or 75°C for wet locations.
- 600 volts, approved for use as specified by the NEC®.

Features:
- Color coded phase conductors.
- Full or reduced neutral constructions.
- Fiberglass reinforced tape under the outer jacket.
- Sunlight and moisture resistant, flame retardant jacket.

Industry Approvals:
- UL Standard 854.
- Federal Specification JC-30B.
- NEC® Articles 230, 310, and 338 (NFPA 70).

Packaging:
- 500 ft. reels.



FLAT CONSTRUCTION

CUSTOM CATALOG NUMBER	SIZE/ AWG	NO. OF STRANDS	GROUND WIRE SIZE	O.D. (INCHES)	SHIPPING WEIGHT (LBS/MFT)
15280	8/2	7	8	0.400x0.625	219
15281	6/2	7	8 *	0.440x0.700	290
15282	6/2	7	6	0.445x0.705	319
15283	4/2	7	6 *	0.515x0.850	445
15284	4/2	7	4	0.540x0.870	494
15285	3/2	7	5 *	0.570x0.930	547
15286	3/2	7	3	0.605x0.970	609
15287	2/2	7	4 *	0.600x1.000	668
15288	2/2	7	2	0.640x1.030	745
15289	1/2	19	1	0.720x1.180	941
15290	1/0-2	19	1/0	0.740x1.240	1157
15291	2/0-2	19	2/0	0.810x1.350	1431
15292	3/0-2	19	3/0	0.890x1.480	1775

To determine ampacity by conductor size, please consult the National Elecrical code, latest edition.

NOTE: Above data is approximate and subject to normal manufacturing tolerances.

* Reduced Neutral

CK-5482-H HYPALON INSULATED WITH COTTON BRAID, 600 VOLT

Construction

Conductor:
- Solid or Class B, C, or D stranded, tin or lead alloy coated copper conforming to ASTM B-33 OR B-189, B-8, and Underwriters' Laboratories requirements. An opaque Mylar tape separator is applied over the stranded conductors.

Insulation:
- 90°C rated black, flame and sunlight resistant Chlorosulfonated Polyethylene (Hypalon) conforming to Underwriters' Laboratories Standard 1581, Table 50.1. The insulation has a limiting oxygen index of 28%.

Separator:
- On sizes 6 AWG and larger, a 1 mil clear Mylar tape is applied over the insulation.

Covering:
- On all sizes, a presaturated cotton braid conforming to UL requirements is applied overall. The braid has a limiting oxygen index of 28%.

Finish:
- A moisture resistant and flame retardant saturant and a colored finisher is applied overall. The standard color is gray. (Blue, red, or green colors are available upon request.)

Marking:
- The cable surface shall be printed using an ink of contrasting color and with the following information:
  On sizes #14 AWG to 1 AWG: "CK-5482-H (Size) AWG RHH OR RHW 600 V. VW-1 (UL) - LL CSA AWM I B 105°C 600 V. FT1 (Year of Mfg.) Sequential Footage".
  For sizes #4 AWG thru 1 AWG: "FT1" is replaced by "FT4".
  On sizes #1/0 AWG and larger: "CK-5482-H (Size) AWG (or KCMIL) RHH or RHW 600 V. VW-1 Sun. Res. for CT Use (UL) - LL CSA AWM I B 105°C 600 V. FT1 (Year of Mfg.) Sequential Footage".

Testing:
- Physical and electrical test in accordance with UL Standard 44 and CSA Standard C22.2 No. 210.2.

Labels:
- UL and CSA labels shall be applied on all reel tags.

Type:
- CK-5482-H Central Office Power Wire and Cable. Hypalon Insulated with Cotton Braid - 600 volt. UL listed Type RHH (90°C dry) or Type RHW (75°C wet). UL listed "For CT Use" (Size 1/0 AWG or larger). CSA AWM 105°C FT1 (FT4 size 4 AWG and larger).

CUSTOM CATALOG NUMBER	SIZE (AWG or KCMIL)	STRANDING	INSULATION MIN. AVG. WALL (MILS)	APPROXIMATE DIAMETER (INCHES)
15600	14	SOLID	45	0.200
15601	12	SOLID	45	0.220
15602	10	SOLID	45	0.250
15603	14	7/.0242"	45	0.210
15604	12	7/.0305"	45	0.230
15605	10	7/.0385"	45	0.270
15606	8	7/.0486"	60	0.330
15607	6	7/.0612"	60	0.370
15608	4	7/.0772"	60	0.420
15609	2	7/.0974"	60	0.480
15610	1	19/.0664"	60	0.560
15611	1/0	19/.0745"	80	0.600
15613	2/0	19/.0837"	80	0.650
15615	3/0	19/.0940"	80	0.700
15617	4/0	19/.1055"	80	0.750
15619	300	37/.0900"	95	0.910
15621	350	37/.0973"	95	0.960
15623	400	37/.1040"	95	1.010
15625	500	37/.1162"	95	1.090
15629	750	61/.1109"	110	1.310

- This specification covers the construction requirements for single conductor power wire and cable insulated with Chlorosulfonated Polyethylene (Hypalon) and with a cotton braid for use in accordance with the National Electrical Code.
- The construction of the wires and cables covered by this specification is in accordance with Underwriters' Laboratories Standard 44. Sizes 4 AWG and larger pass the UL 1581, IEEE 383-1974, IEEE 1020, and CSA FT4 vertical tray flame tests. In addition, sizes 1/0 AWG and larger are UL listed "For CT Use".
- CK-5482-H cables manufactured in accordance with this specification meet the applicable requirements in Bellcore Specification GR-347 - Core Issue 1 dated Nov. 1996 (Generic requirements for Central Office Power Wire).

CK-20921 HYPALON INSULATED/JACKETED WITH BRAID, 600 VOLT

Construction

Conductor:
- Bunch or rope stranded, tin-coated annealed copper conforming to ASTM B-33, B-174 or B-172, and UL requirements. On sizes 4 AWG and larger, an opaque Mylar tape is applied over the conductor.

Insulation:
- 90°C rated black flame and sunlight resistant Chlorosulfonated Polyethylene (Hypalon) conforming to Underwriters' Laboratories Standard 44 requirements for Type RHH/RHW and CSA AWM 90°C requirements. The insulation has a limiting oxygen index of 28%.

Separator:
- On sizes 6 AWG and larger, a 1 mil clear Mylar tape is applied over the insulation.

Covering:
- On all sizes, a presaturated cotton braid conforming to UL requirements is applied overall. The braid has a limiting oxygen index of 28%.

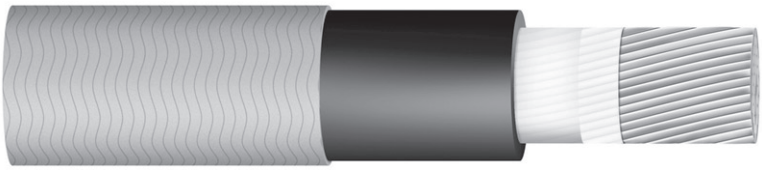
Finish:
- A moisture resistant and flame retardant saturant and a colored finisher is applied overall. The **standard color is gray**. (Blue, red, or green colors are available upon request.)

Marking:
- The cable surface shall be printed using black ink and with the following information:
  Sizes #8 and 6 AWG: "CK-20921 (Size) AWG type RHH or RHW 600 V. (UL) - LL CSA AWM I B 105°C 600 V. FT4".
  Sizes #4 thru #2 AWG: "FT1" is replaced by "FT4".
  Sizes #1/0 AWG and larger: "CK-20921 (Size) AWG (or KCMIL) Type RHH or RHW 600 V. For CT Use (UL) - LL CSA AWM I B 105°C 600 V. FT4".

Testing:
- Physical and electrical tests in accordance with the requirements of UL Standard 44 and CSA Standard C22.2 No. 210.2.

Labels:
- UL labels applied on all tags. CSA labels applied where applicable.

Type:
- CK-20921 600 Volt Flexible Power Cable. Hypalon Integral Insulated/Jacketed **with Cotton Braid**. UL listed Type RHH (90°C dry) or Type RHW (75°C wet). UL listed "For CT Use" (Size 1/0 AWG or larger). CSA AWM I B 105°C FT1 (FT4 size 4 AWG and larger).



CUSTOM CATALOG NUMBER	SIZE (AWG/KCMIL)	STRANDING	NOMINAL CONDUCTOR DIAMETER (INCHES)	INSULATION MIN. AVG. WALL (MILS)	APPROX. DIAMETER (INCHES)
15660	8	41/.0201"	0.156	60	0.324
15661	6	65/.0201"	0.186	60	0.354
15662	4	105/.0201"	0.263	60	0.438
15663	2	168/.0201"	0.325	60	0.498
15664	1/0	266/.0201"	0.441	80	0.658
15665	2/0	342/.0201"	0.500	80	0.718
15666	4/0	532/.0201"	0.613	80	0.845
15667	350	855/.0201"	0.750	95	1.000
15668	500	1221/.0201"	0.941	95	1.240
15669	750	1850/.0201"	1.100	110	1.380

- This specification covers the construction requirements for single conductor, flexible stranded power cable insulated with Chlorosulfonated Polyethylene (Hypalon) and covered with a cotton braid.
- These cables are suitable for use in wet locations at 75°C or in dry locations at 90°C and are for use in accordance with the National Electrical Code.
- The construction of the cable is in accordance with Underwriters' Laboratories Standard 44. Sizes 4 AWG and larger pass the UL 1581, IEEE 383-1974, IEEE 1202, and CSA FT4 vertical tray flame tests. In addition, sizes 1/0 AWG and larger are UL listed "For CT Use".

CK-20921 HYPALON INSULATED/JACKETED (NO BRAID), 600 VOLT

Construction

Conductor:
- Flexible bunch or rope stranded, tin-coated annealed copper conforming to ASTM B-33, B-172, or B-174, and UL requirements. On sizes 4 AWG and larger, an opaque Mylar tape is applied over the conductor.

Insulation/Jacket:
- 105°C rated, black flame and sunlight resistant Chloro-sulfonated Polyethylene (Hypalon) conforming to Underwriters' Laboratories Standard 44 (Class CP Table 50.1) requirements for Type RHH/RHW and CSA AWM 105°C requirements. The insulation/jacket has a limiting oxygen index of 28%.

Marking:
- The cable surface shall be printed using white ink and with the following information:

  Sizes #8 and 6 AWG: "CK-20921 (Size) AWG type THH or RHW 600 V. (UL) - LL CSA AWM I B 105°C 600 V. FT1".

  Sizes #4 thru #1 AWG: "FT1" is replaced by "FT4".

  Sizes #1/0 and larger: "CK-20921 (Size) AWG (or KCMIL) Type RHH or RHW 600 V. For CT Use (UL) - LL CSA AWM I B 105°C 600 V. FT4".

Testing:
- Physical and electrical tests in accordance with the requirements of Underwriters' Laboratories Standard 44 and CSA Standard C22.2 No. 210.2.

Labels:
- UL labels are applied on all reel tags. CSA labels are applied where applicable.

Type:
- CK-20921 600 Volt Flexible Power Cable.
  Hypalon Integral Insulated/Jacketed (no braid).
  UL listed Type RHH (90°C dry) or Type RHW (75°C wet).
  UL listed "For CT Use" (Sizes 1/0 AWG and larger).
  CSA AWM I B 105°C FT1
  (FT4 Sizes 4 AWG and larger).

CUSTOM CATALOG NUMBER	SIZE (AWG/KCMIL)	STRANDING	CONDUCTOR DIAMETER (INCHES)	INSULATION MIN. AVG. WALL (MILS)	APPROX. DIAMETER (INCHES)
15680	8	41/.0201"	0.156	60	0.290
15681	6	65/.0201"	0.186	60	0.320
15682	4	05/.0201"	0.263	60	0.405
15683	2	168/.0201"	0.325	60	0.465
15685	1/0	266/.0201"	0.441	80	0.625
15686	2/0	342/.0201"	0.500	80	0.685
15687	4/0	532/.0201"	0.613	80	0.800
15688	350	855/.0201"	0.750	95	0.960
15689	500	1221/.0201"	0.941	110	1.170
15690	750	1850/.0201"	1.100	110	1.340

- This specification covers the construction requirements for single conductor, flexible stranded power cables insulated/jacketed with Chlorosulfonated Polyethylene (Hypalon) in accordance with Underwriters' Laboratories Standard 44.
- These cables are suitable for use in wet locations at 75°C or in dry locations at 90°C and are for use in accordance with the National Electrical Code.
- The construction of the wire and cable is in accordance with Underwriters' Laboratories Standard 44. Sizes 4 AWG and larger pass the UL 1581, IEEE 383-1974, IEEE 1202, and CSA FT4 vertical tray flame tests. In addition, sizes 1/0 AWG and larger are UL listed "For CT Use".

LOW SMOKE, ZERO HALOGEN (LSZH) 600 VOLTS

XLPO, LOW-SMOKE, ZERO-HALOGEN (LSZH), LOW-VOLTAGE POWER, UNSHIELDED 600V, TYPE RHH/RHW-LS/USE, CSA AWM I A/B, CLASS B

B

Construction

Conductor:
- 14 AWG thru 750 kcmil tinned coated compressed copper per ASTM B3 and B33. Class B stranding per ASTM 88.

Composite Insulation/Jacket:
- Flame-retardant, oil-resistant, limited smoke, Cross-Linked Polyolefin (XLPO), Black.

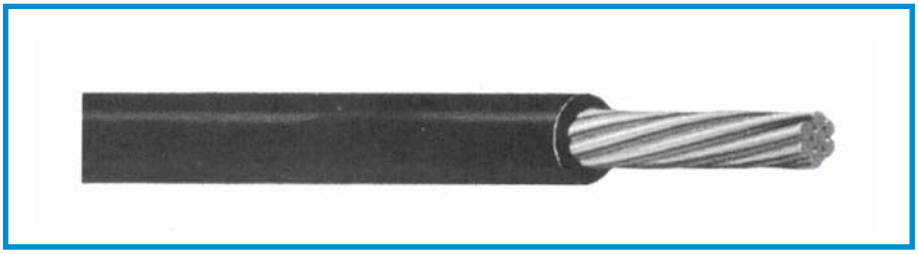
Print:
- (UL) TYPE USE OR RHH OR RHW-LS VW-1 (SIZE) 600V OIL RES. I SUN RES. FOR CT USE*/ CSA AWM I A/B 105°C 600V FT4 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK.
  **Sizes smaller than 1/0 AWG do not include "FOR CT USE".*

Options:
- Available in Blue, Green, Red and Gray.

Applications:
- General purpose 600V Power Cable Applications.
- For use in conduit, open tray, underground duct and aerial installations when properly supported and installed.
- RHH/RHW ratings for installation in conduit or raceway.
- USE rating for Direct Burial Applications.
- CT-rated for installation in Cable Tray - 1/0 AWG and larger.
- For use in all closed environments or populated spaces such as auditoriums, arenas and health facilities where more stringent specifications for smoke and toxicity emission levels are desired.
- Ideally suited for use in a broad range of commercial and industrial applications where reliability is the major concern, where maximum performance is demanded and where space is limited.

Features:
- UL Type RHH/RHW/USE Rated at 90°C dry, 75°C wet.
- CSA AWM I A/B Rated at 105°C.
- UL AWM styles 3237 and 3578.
- Smooth surface for reduced coefficient of friction for ease of installation.
- Excellent moisture resistance.
- Excellent resistance to salt water.
- Available in colors for ease of phase identification.
- Minimum acid gas emissions under combustion.
- Meets cold bend test at -40°C.
- Meets UL Oil Res. I and II.

Compliances:
- UL 44 Standard for Rubber Insulated Wire.
- UL 758 Standard for Appliance Wiring Material.
- UL 854 Standard for Service Entrance Cable.
- UL 1685 Standard for Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables.
- Telcordia GR347 Core.
- UL Listed VW-1.
- ICEA S-95-658/NEMA WC 70.
- IEEE 1202 (70,000 BTU/hr.).
- IEEE 383 (70,000 BTU/hr.).
- Sizes 1/0 AWG and larger are listed "FOR CT USE".
- CSA FT4.
- CSA Standard C22.2 No. 0.3.
- CSA Standard C22.2 No. 210.2.
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.
- OSHA acceptable.



CUSTOM CATALOG NUMBER	SIZE (AWG/KCMIL)	NOMINAL CONDUCTOR DIAMETER (INCHES)	MINIMUM AVG. INSULATION THICKNESS (INCHES)	NOMINAL CABLE O.D. (INCHES)	NET WEIGHT LBS./1000 FT.
14 AWG - 750 kcmil CONDUCTORS, CLASS B					
18100	14	0.07	0.045	0.17	18
18101	12	0.09	0.045	0.19	25
18102	10	0.12	0.045	0.22	38
18103	8	0.15	0.060	0.28	58
18104	6	0.18	0.060	0.31	116
18105	4	0.23	0.060	0.36	171
18106	2	0.28	0.060	0.42	257
18107	1	0.32	0.080	0.49	331
18108	1/0	0.36	0.080	0.53	406
18109	2/0	0.41	0.080	0.58	495
18110	3/0	0.46	0.080	0.63	612
18111	4/0	0.51	0.080	0.68	757
18112	250	0.56	0.095	0.76	905
18113	350	0.66	0.095	0.87	1237
18114	500	0.79	0.095	1.00	1728
18115	750	0.97	0.110	1.21	2572

Dimensions and weights are nominal; subject to industry tolerances.

BUILDING WIRE

TYPE XHHW-2 — XLP INSULATION, 600 VOLT — TINNED COPPER 90°C

Construction

Conductor:

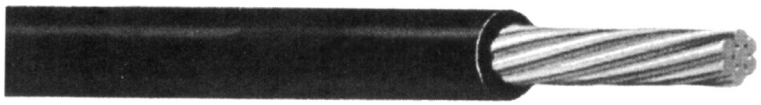
- Tinned copper conductor, XLP thermosetting chemically crosslinked polyethylene insulation, surface printed.

Applications:

- General purpose wiring for lighting and power - residential, commercial, industrial buildings in accordance with NEC, maximum conductor temperature of 90°C in wet or dry locations, 600 volts, for installation in conduit or other recognized raceways.
- Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less, such as isolated circuits supplying anesthetizing locations per Article 517-160 of the NEC.
- Suitable for use as low leakage inductive (loop) vehicle detector wire in accordance with state and municipal requirements.

Industry Approvals:

- Listed by UL as Type XHHW-2 per UL Standard 44 for Rubber Insulated Wires and Cables.
- Conforms to ICEA Pub. No. S-66-524, utilizing column B thicknesses.
- Conforms to Federal Specification J-C-30B.
- UL44 ICEA S-95-658 NEMA WC-70.
- ROHS Compliant.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	NOMINAL O. D.	CURRENT (AMPS*)	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	90°C WET/DRY	LBS./MFT
STRANDED						
15153T	14	7	0.030	0.140	35	19
15154T	12	7	0.030	0.160	40	26
15155T	10	7	0.030	0.180	55	41
15156T	8	7	0.045	0.240	80	67
15157T	6	7	0.045	0.280	105	100
15158T	4	7	0.045	0.320	140	152
15159T	2	7	0.045	0.380	190	234
15161T	1/0	19	0.055	0.480	260	361
15162T	2/0	19	0.055	0.520	300	450
15163T	3/0	19	0.055	0.580	350	561
15164T	4/0	19	0.055	0.630	405	701
15165T	250	37	0.065	0.700	455	846
15167T	350	37	0.065	0.800	570	1168
15169T	500	37	0.065	0.930	700	1646
15171T	750	61	0.080	1.140	885	2470

* Ampacity in accordance with NEC for not more than three conductors in raceway, 75°C conductor temperature and 30°C ambient in wet or dry locations.

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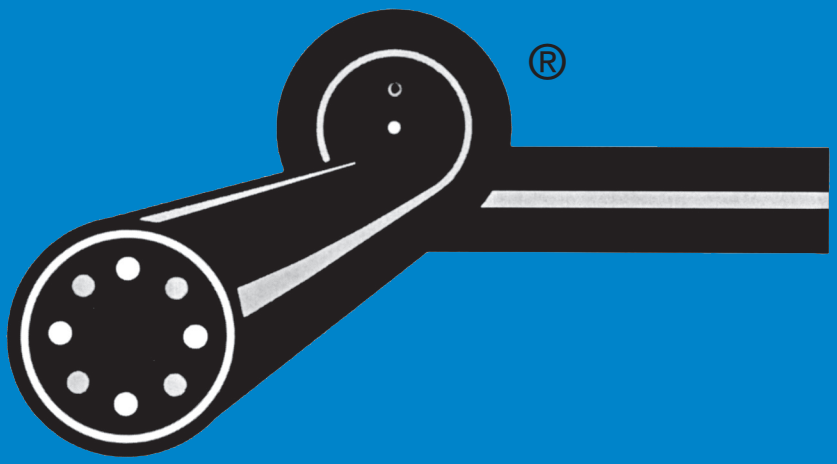
CONTROL CABLES



C

CONTROL CABLE

TFFN TRAY CABLES - UNSHIELDED TYPE TC
90°C DRY - 75°C WET - NEC® ARTICLE 340 - 600 VOLT

C

Construction

Conductors:
- Stranded soft annealed copper.

Insulation:
- 90°C polyvinyl chloride (PVC).

Insulation Jacket:
- Applied directly over the PVC insulation is a tough nylon sheath offering protection to the insulation, type TFFN.

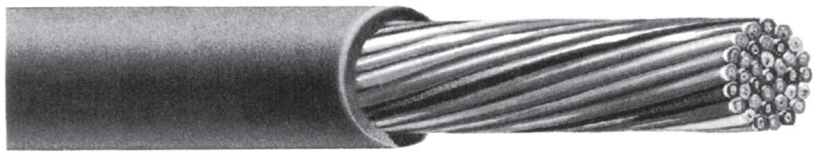
Color Code:
- Conductors are dual identified with color coding per ICEA Method 1, Table K-2 and alphanumeric printing per ICEA Method 4.
- See Chart #24.

Cabling:
- The specified number of conductors are cabled with fillers where needed. A suitable tape is applied over the assembly.

Applications:
- TFFN Tray Cable is suitable for use in conduit, duct, tray or rack. It may be used in free air when supported by a messenger or for direct burial. Its small diameter facilitates installation and conserves space. It may be installed in cable trays in accordance with Articles 318, 340, and 725 of the NEC. It may be used in Class I, Div. II hazardous locations as allowed under Articles 318, 340 and 501. It is a Class I Cable as defined by Articles 725 and 760.

Rating:
- 90°C Dry, 75°C Wet, 600 Volt.

Features:
- TFFN conductors allow for a small diameter cable.
- Tough PVC Jacket.
- UL Listed as Type TC, 600 Volts 90°C.
- Meets IEEE 383 Flame Test with 70,000 BTU as well as 210,000 BTU Flame Source.
- Moisture and Sunlight Resistant.
- Meets appropriate sections of NEC Articles 300, 318, 340, 501 and 725.
- UL Listed for Direct Burial.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	NYLON	JACKET	INCHES	LBS/MFT
STRANDED							
22001	18	2 (Flat)	0.015	0.004	0.045	0.180x0.280	41
22003	18	3	0.015	0.004	0.045	0.290	50
22004	18	4	0.015	0.004	0.045	0.310	60
22005	18	5	0.015	0.004	0.045	0.340	71
22007	18	7	0.015	0.004	0.045	0.370	89
22009	18	9	0.015	0.004	0.045	0.420	112
22010	18	10	0.015	0.004	0.045	0.440	121
22012	18	12	0.015	0.004	0.045	0.460	156
22015	18	15	0.015	0.004	0.045	0.510	169
22019	18	19	0.015	0.004	0.060	0.580	220
22020	18	20	0.015	0.004	0.060	0.590	228
22024	18	24	0.015	0.004	0.060	0.640	268
22025	18	25	0.015	0.004	0.060	0.650	279
22026	18	26	0.015	0.004	0.060	0.660	287
22030	18	30	0.015	0.004	0.060	0.710	325
22034	18	34	0.015	0.004	0.060	0.740	361
22035	18	35	0.015	0.004	0.060	0.750	371
22037	18	37	0.015	0.004	0.060	0.760	390
9401	16	2 (Flat)	0.015	0.004	0.045	0.195x0.297	49
9402	16	3	0.015	0.004	0.045	0.310	66
9403	16	4	0.015	0.004	0.045	0.340	79
9404	16	5	0.015	0.004	0.045	0.370	94
9405	16	6	0.015	0.004	0.045	0.400	109
9406	16	7	0.015	0.004	0.045	0.400	118
9408	16	9	0.015	0.004	0.045	0.460	147
9409	16	10	0.015	0.004	0.045	0.480	162
9411	16	12	0.015	0.004	0.045	0.510	202
9414	16	15	0.015	0.004	0.060	0.590	243
9418	16	19	0.015	0.004	0.060	0.630	296
9419	16	20	0.015	0.004	0.060	0.650	310
9423	16	24	0.015	0.004	0.060	0.710	367
9424	16	25	0.015	0.004	0.060	0.720	379
9425	16	26	0.015	0.004	0.060	0.730	391
9429	16	30	0.015	0.004	0.060	0.780	456
9433	16	34	0.015	0.004	0.060	0.810	536
9434	16	35	0.015	0.004	0.080	0.860	549
9436	16	37	0.015	0.004	0.080	0.880	580

Note: Dupont® color code available on special request. Additional conductors available on special order. Consult factory for details and specifications.

Passes IEEE 383 70,000 BTU Flame Test

Passes IEEE 383 210,000 BTU Flame Test

UL® LISTED TYPE TC

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THHN TRAY CABLES - UNSHIELDED TYPE TC
90°C DRY - 75°C WET - NEC® ARTICLE 340 - 600 VOLT

Construction

Conductors:
- Stranded soft annealed copper.

Insulation:
- 90°C polyvinyl chloride (PVC).

Insulation Jacket:
- Applied directly over the PVC insulation is a tough nylon sheath offering protection to the insulation, type THHN.

Color Code:
- Conductors are dual identified with color coding per ICEA Method 1, Table K-2 and alphanumeric printing per ICEA Method 4.
- See Chart #24.

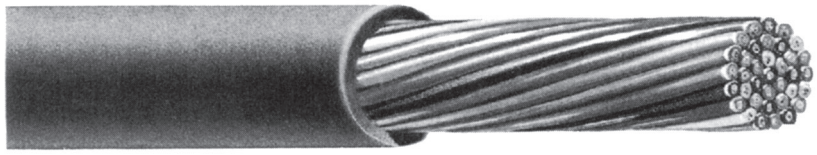
Cabling:
- The specified number of conductors are cabled with fillers where needed. A suitable tape is applied over the assembly.

Overall Jacket:
- A heavy-duty black PVC jacket to meet UL requirements is applied over the assembled core.

Applications:
- THHN Tray Cable is suitable for use in conduit, duct, tray or rack. It may be used in free air when supported by a messenger or for direct burial. Its small diameter facilitates installation and conserves space. It may be installed in cable trays in accordance with Articles 318, 340, and 725 of the NEC. It may be used in Class I, Div. II hazardous locations as allowed under Articles 318, 340 and 501. It is a Class I Cable as defined by Articles 725 and 760.

Rating:
- 90°C Dry, 75°C Wet, 600 Volt.

Features:
- THHN/THWN conductors allow for a small diameter cable.
- Tough PVC Jacket.
- UL Listed as Type TC or 600 Volts 90°C.
- Meets IEEE 383 Flame Test with 70,000 BTU as well as 210,000 BTU Flame Source.
- Moisture and Sunlight Resistant.
- Meets appropriate sections of NEC Articles 300, 318, 340, 501 and 725.
- UL Listed for Direct Burial.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	NOMINAL THICKNESS (INCHES) INSULATION	NYLON	JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
			STRANDED				
9438	14	2 (Flat)	0.015	0.004	0.045	0.210x0.320	64
9439	14	3	0.015	0.004	0.045	0.340	87
9440	14	4	0.015	0.004	0.045	0.370	107
9441	14	5	0.015	0.004	0.045	0.400	129
9443	14	7	0.015	0.004	0.045	0.440	162
9445	14	9	0.015	0.004	0.060	0.510	221
9446	14	10	0.015	0.004	0.060	0.560	237
9448	14	12	0.015	0.004	0.060	0.590	281
9451	14	15	0.015	0.004	0.060	0.650	340
9455	14	19	0.015	0.004	0.060	0.700	408
9456	14	20	0.015	0.004	0.060	0.720	424
9460	14	24	0.015	0.004	0.060	0.780	508
9461	14	25	0.015	0.004	0.060	0.790	526
9462	14	26	0.015	0.004	0.080	0.800	582
9466	14	30	0.015	0.004	0.080	0.900	666
9472	14	36	0.015	0.004	0.080	0.970	780
9473	14	37	0.015	0.004	0.080	0.970	794
9476	12	2 (Flat)	0.015	0.004	0.045	0.230x0.360	83
9477	12	3	0.015	0.004	0.045	0.380	113
9478	12	4	0.015	0.004	0.045	0.420	145
9479	12	5	0.015	0.004	0.045	0.450	175
9480	12	6	0.015	0.004	0.045	0.500	199
9481	12	7	0.015	0.004	0.045	0.500	223
9483	12	9	0.015	0.004	0.060	0.610	304
9484	12	10	0.015	0.004	0.060	0.630	327
9486	12	12	0.015	0.004	0.060	0.670	388
9489	12	15	0.015	0.004	0.060	0.730	466
9493	12	19	0.015	0.004	0.060	0.790	581
9494	12	20	0.015	0.004	0.080	0.820	647
9498	12	24	0.015	0.004	0.080	0.930	768
9499	12	25	0.015	0.004	0.080	0.940	796
9500	12	26	0.015	0.004	0.080	0.960	822
9504	12	30	0.015	0.004	0.080	1.020	938
9511	12	37	0.015	0.004	0.080	1.100	1134
9514	10	2 (Flat)	0.020	0.004	0.045	0.260x0.430	115
9515	10	3	0.020	0.004	0.045	0.460	167
9516	10	4	0 020	0.004	0.045	0.500	212
9517	10	5	0.020	0.004	0.060	0.580	269
9519	10	7	0.020	0.004	0.060	0.630	352
9521	10	9	0.020	0.004	0.060	0.730	445
9522	10	10	0.020	0.004	0.060	0.770	490
9524	10	12	0.020	0.004	0.060	0.810	579

Note: Dupont® color code available on special request.
Additional conductors available on special order. Consult factory for details and specifications.

Passes IEEE 383 70,000 BTU Flame Test

Passes IEEE 383 210,000 BTU Flame Test

UL® LISTED TYPE TC

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CONTROL CABLE

XHHW-2 TRAY CABLE - UNSHIELDED TYPE TC
90°C WET & DRY - 600 VOLT

Construction

Conductors:
- Stranded soft bare copper.

Insulation:
- Concentric layer of 90°C crosslinked polyethylene (XLP). This XLP compound is specially formulated to provide excellent electrical and physical properties. Each insulated conductor passes the UL VW-1 vertical flame test.

Color Code:
- The individual conductors are color coded in accordance with ICEA Table K-2.
- See Chart #24.

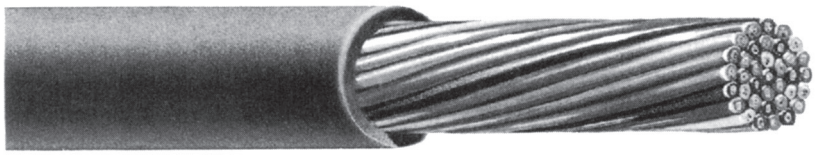
Cabling:
- The specified number of conductors are cabled with fillers where needed and a suitable tape is applied over the assembly. Two-conductor cables are flat parallel design.

Overall Jacket:
- A heavy-duty polyvinyl chloride (PVC) sheath to meet the requirements of UL Class-12 is applied over the assembled core.

Applications:
- Control applications where cable is used in conduit, ducts, trays or racks. It can also be used in free air when supported by a messenger or for direct burial. Can be installed in cable trays per NEC Articles 318, 340 and 501.

Features:
- Moisture and Sunlight Resistant.
- Meets UL 1277 Flame Tray Test with 70,000 BTU Flame Source.
- Rated 90°C Dry, 75°C Wet, 600 volt.
- UL Listed as Type TC and for aerial use and direct burial.
- Insulated Conductors are XHHW-2 Type and Pass VW-1 Flame Test.
- Meets Appropriate Sections of NEC Articles 318, 340 and 501.

Meets NEC:
- Art. 318 for Cable Tray Installations.
- Art. 340 for Cable Construction.
- Art. 501 for Class 1, Div. 2 Hazardous Locations.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	NOM. INSUL. THICKNESS INCHES	NOM. JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
			STRANDED			
9540	14	2 (Flat)	0.030	0.045	0.230x0.370	72
9541	14	3	0.030	0.045	0.390	100
9542	14	4	0.030	0.045	0.420	125
9543	14	5	0.030	0.045	0.460	150
9544	14	6	0.030	0.045	0.500	164
9545	14	7	0.030	0.045	0.500	175
9546	14	8	0.030	0.060	0.580	213
9547	14	9	0.030	0.060	0.620	240
9548	14	10	0.030	0.060	0.640	260
9550	14	12	0.030	0.060	0.680	303
9553	14	15	0.030	0.060	0.750	365
9557	14	19	0.030	0.060	0.810	446
9558	14	20	0.030	0.080	0.870	480
9562	14	24	0.030	0.080	0.950	610
9563	14	25	0.030	0.080	0.960	630
9564	14	26	0.030	0.080	0.970	650
9568	14	30	0.030	0.080	1.040	734
9575	14	37	0.030	0.080	1.120	881
9580	12	2 (Flat)	0.030	0.045	0.250x0.410	100
9581	12	3	0.030	0.045	0.430	136
9582	12	4	0.030	0.045	0.470	167
9583	12	5	0.030	0.060	0.550	215
9584	12	6	0.030	0.060	0.590	271
9585	12	7	0.030	0.060	0.590	292
9586	12	8	0.030	0.060	0.640	328
9587	12	9	0.030	0.060	0.690	364
9588	12	10	0.030	0.060	0.720	402
9590	12	12	0.030	0.060	0.760	460
9593	12	15	0.030	0.080	0.880	548
9597	12	19	0.030	0.080	0.950	656
9598	12	20	0.030	0.080	0.980	692
9602	12	24	0.030	0.080	1.060	821
9603	12	25	0.030	0.080	1.080	851
9604	12	26	0.030	0.080	1.090	880
9608	12	30	0.030	0.080	1.170	1003
9615	12	37	0.030	0.080	1.260	1215

NOTE: Consult factory for cable constructions and wire sizes not shown.

UL® LISTED

Passes UL VW-1 Flame Test — **Passes UL-VW-1 Flame Test** Underwriters Laboratories Inc.

Passes UL 70,000 BTU Flame Test

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XHHW-2 TRAY CABLE - UNSHIELDED TYPE TC
90°C WET & DRY - 600 VOLT

Construction

Conductors:
- Stranded soft bare copper.

Insulation:
- Concentric layer of 90°C crosslinked polyethylene (XLP). This XLP compound is specially formulated to provide excellent electrical and physical properties. Each insulated conductor passes the UL VW-1 vertical flame test.

Color Code:
- The individual conductors are color coded in accordance with ICEA Table K-2.
- See Chart #24.

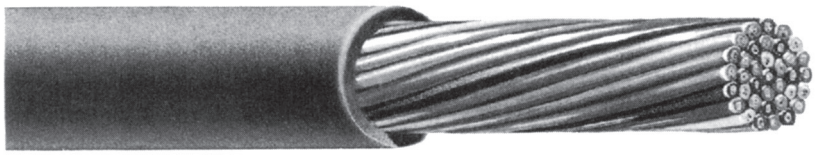
Cabling:
- The specified number of conductors are cabled with fillers where needed and a suitable tape is applied over the assembly. Two-conductor cables are flat parallel design.

Overall Jacket:
- A heavy-duty polyvinyl chloride (PVC) sheath to meet the requirements of UL Class-12 is applied over the assembled core.

Applications:
- Control applications where cable is used in conduit, ducts, trays or racks. It can also be used in free air when supported by a messenger or for direct burial. Can be installed in cable trays per NEC Articles 318, 340 and 501.

Features:
- Moisture and Sunlight Resistant.
- Meets UL 1277 Flame Tray Test with 70,000 BTU Flame Source.
- Rated 90°C Dry, 75°C Wet, 600 volt.
- UL Listed as Type TC and for aerial use and direct burial.
- Insulated Conductors are XHHW-2 Type and Pass VW-1 Flame Test.
- Meets Appropriate Sections of NEC Articles 318, 340 and 501.

Meets NEC:
- Art. 318 for Cable Tray Installations.
- Art. 340 for Cable Construction.
- Art. 501 for Class 1, Div. 2 Hazardous Locations.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	NOM. INSUL. THICKNESS INCHES	NOM. JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
STRANDED						
9620	10	2 (Flat)	0.030	0.045	0.270x0.460	130
9621	10	3	0.030	0.045	0.480	175
9622	10	4	0.030	0.060	0.560	238
9623	10	5	0.030	0.060	0.610	285
9624	10	6	0.030	0.060	0.670	352
9625	10	7	0.030	0.060	0.670	384
9626	10	8	0.030	0.060	0.720	435
9627	10	9	0.030	0.060	0.780	480
9628	10	10	0.030	0.060	0.810	520
9630	10	12	0.030	0.080	0.900	605
9633	10	15	0.030	0.080	0.990	745
9637	10	19	0.030	0.080	1.070	900
9638	10	20	0.030	0.080	1.100	950
9642	10	24	0.030	0.080	1.200	1165
9643	10	25	0.030	0.080	1.210	1210
9644	10	26	0.030	0.080	1.230	1255
9648	10	30	0.030	0.080	1.320	1435
9655	10	37	0.030	0.080	1.430	1750

NOTE: Consult factory for cable constructions and wire sizes not shown.

C

UL® LISTED

Passes UL VW-1 Flame Test — **Passes UL-VW-1 Flame Test** Underwriters Laboratories Inc.

Passes UL 70,000 BTU Flame Test

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
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TRAY CABLE

TWO CONDUCTOR - UNSHIELDED, 90°C - 600 VOLT - UL SUBJECT 1277
TWO CONDUCTOR - SHIELDED, 90°C - 600 VOLT - UL SUBJECT 1277

C

Construction

Description:

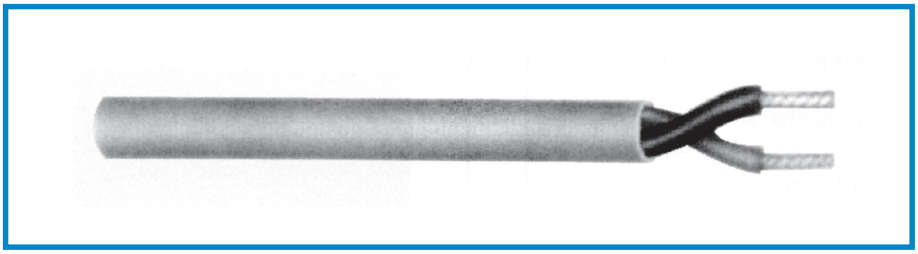
- Stranded tinned copper, each conductor has PVC insulation with nylon jacket, conductors cabled, Black PVC jacket overall.
- Aluminum mylar shield (100% coverage).
- Stranded copper drain wire.

Color Code:

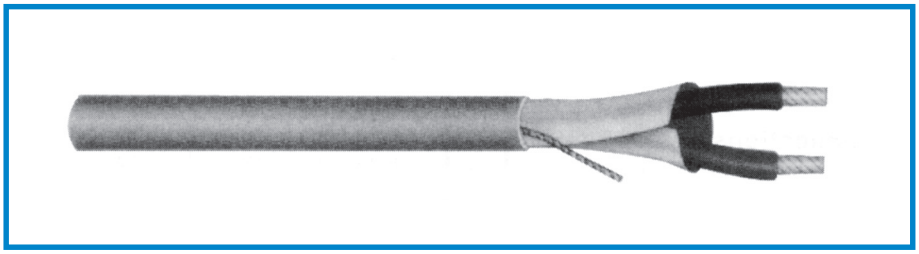
- See Chart #3.

Industry Approvals:

- Listed as Tray Cable under subject 1277 for use as tray cable in accordance with articles 318, 340, 500, and 501 of the NEC.
- Material passes the UL 70,000 BTU flame test which is comparable to the IEEE 383 flame test.
- This material is suitable for outdoor use.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	NYLON	JACKET	INCHES	LBS/MFT
TWO CONDUCTOR - UNSHIELDED							
5002	18	19	0.016	0.005	0.048	0.281	43
5003	16	19	0.016	0.005	0.048	0.306	54
5004	14	42	0.022	0.005	0.048	0.359	78
5005	12	37	0.022	0.005	0.048	0.384	96



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	NYLON	JACKET	INCHES	LBS/MFT
TWO CONDUCTOR - SHIELDED							
5012	18	19	0.016	0.005	0.048	0.278	47
5013	16	19	0.016	0.005	0.048	0.304	61
5014	14	42	0.022	0.005	0.048	0.358	88
5015	12	37	0.022	0.005	0.048	0.380	113

THHN TRAY CABLES - SHIELDED TYPE TC 90°C WET 600 VOLT PVC/NYLON INSULATION - PVC JACKET

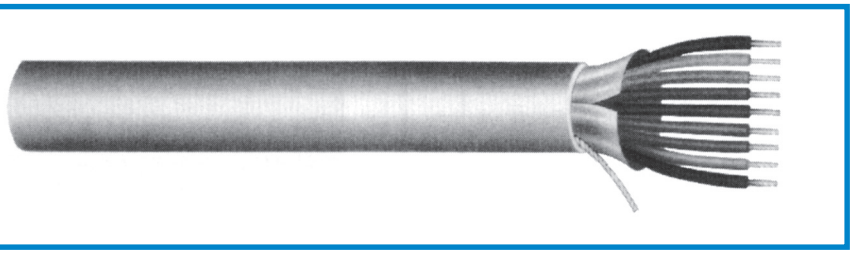
Construction

Conductors:
- Stranded Bare Copper Conductors.

Description:
- Color Coded Polyvinyl Chloride (PVC) Insulation with Overall Nylon. Sizes 18 and 16 AWG are rated TFFN, Sizes 14, 12 and 10 are rated VN-THHN/THWN.
- Conductors are cabled with fillers as needed.
- Polyester binder tape.
- Aluminum mylar shield (100% coverage).
- Stranded copper drain wire.
- Black Polyvinyl Chloride (PVC) Jacket.

Color Code:
- See Chart #24.

Applications:
- For use in Class 1, Division 2 Hazardous locations.
- For installation in trays, wireways, ducts, conduit and aerially when properly supported by a messenger.
- Approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	NYLON	JACKET	INCHES	LBS/MFT
22001S	18	2	0.015	0.004	0.045	0.275	54
22003S	18	3	0.015	0.004	0.045	0.288	62
22004S	18	4	0.015	0.004	0.045	0.311	72
22005S	18	5	0.015	0.004	0.045	0.374	83
22007S	18	7	0.015	0.004	0.045	0.401	101
22009S	18	9	0.015	0.004	0.045	0.455	124
22012S	18	12	0.015	0.004	0.045	0.495	171
22015S	18	15	0.015	0.004	0.045	0.500	198
22019S	18	19	0.015	0.004	0.060	0.570	238
9401S	16	2	0.015	0.004	0.045	0.299	62
9402S	16	3	0.015	0.004	0.045	0.314	80
9403S	16	4	0.015	0.004	0.045	0.340	94
9404S	16	5	0.015	0.004	0.045	0.416	109
9406S	16	7	0.015	0.004	0.045	0.447	132
9408S	16	9	0.015	0.004	0.045	0.509	162
9411S	16	12	0.015	0.004	0.060	0.584	220
9414S	16	15	0.015	0.004	0.060	0.635	262
9418S	16	19	0.015	0.004	0.060	0.681	316
9438S	14	2	0.015	0.004	0.045	0.325	85
9439S	14	3	0.015	0.004	0.045	0.342	102
9440S	14	4	0.015	0.004	0.045	0.372	122
9441S	14	5	0.015	0.004	0.045	0.463	144
9443S	14	7	0.015	0.004	0.045	0.498	180
9445S	14	9	0.015	0.004	0.060	0.598	241
9448S	14	12	0.015	0.004	0.060	0.648	291
9451S	14	15	0.015	0.004	0.060	0.706	360
9455S	14	19	0.015	0.004	0.060	0.758	433
9476S	12	2	0.015	0.004	0.045	0.363	107
9477S	12	3	0.015	0.004	0.045	0.383	128
9478S	12	4	0.015	0.004	0.045	0.417	160
9479S	12	5	0.015	0.004	0.045	0.450	195
9481S	12	7	0.015	0.004	0.045	0.489	243
9483S	12	9	0.015	0.004	0.045	0.571	324
9486S	12	12	0.015	0.004	0.060	0.670	408
9489S	12	15	0.015	0.004	0.060	0.722	486
9493S	12	19	0.015	0.004	0.060	0.780	606
9514S	10	2	0.020	0.004	0.045	0.429	142
9515S	10	3	0.020	0.004	0.045	0.455	182
9516S	10	4	0.020	0.004	0.045	0.497	227
9517S	10	5	0.020	0.004	0.060	0.595	284
9519S	10	7	0.020	0.004	0.060	0.624	370
9521S	10	9	0.020	0.004	0.060	0.727	463

UL® LISTED

CONTROL CABLE

VW-1 XHHW-2 INSULATION WITH HYPALON® JACKET TYPE TC 600 VOLT, 90°C WET AND DRY

C

Construction

Conductors:
- Coated annealed cooper.
- ASTM B-33 and B-189.
- Concentric stranded class B (7 strands).
- ASTM B-8, UL-44 paragraph 12.4 and UL-62 paragraph 10.2 (A suitable separator is applied between the conductor and insulation to facilitate stripping).

Insulation:
- VW-1 crosslinked polyethylene (Thermoset).

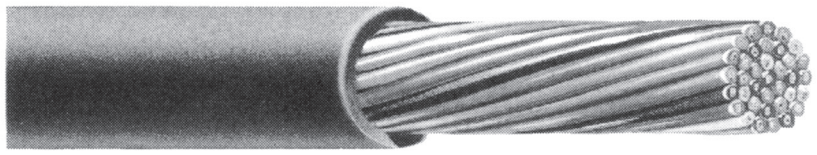
Cabling:
- Three or more conductors are assembled round with flame resistant, non-hygroscopic and non-wicking neoprene fillers as needed. A flame resistant, non-hygroscopic and non-wicking tape binder is applied over the assembly. Two conductors are assembled flat parallel (round, with neoprene fillers as needed, is available upon request).

Overall Jacket:
- Heavy duty, flame and sunlight resistant Hypalon® (black) (Thermoset).

Color Coding:
- ICEA Method 1 using solid colors with stripes in accordance with Table K-2.
- See Chart #24.

Scope:
- This specification covers multiconductors having stranded, coated copper conductors; flame resistant crosslinked polyethylene insulation, and a heavy duty flame and sunlight resistant Hypalon® jacket. Cables conform to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1984 NEC, Subject 1277 of Underwriters Laboratories, Inc. and ICEA S-66-524, and meet the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383. Cables are rated 600 volts, 90°C dry and wet. Sizes 14, 12 and 10 AWG conductors are XHHW rated (VW-1). Also meets IEEE-1202, ICEA T-29-520, T30-520 and FT-4.

Applications:
- UL listed and OSHA acceptable.
- Recognized for use in Class 1, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts, conduit and aerially where supported by a messenger.
- Specifically approved for direct burial, wet and dry locations and outdoors in cable trays where a sunlight resistant rating is required.
- Designed for control, power, lighting, telemetering, signal and relay or traffic control where a low loss, high temperature insulation is specified.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
22662	16	2 (Flat)	0.030	0.045	0.216x0.339	58
22663	16	3	0.030	0.045	0.357	79
22664	16	4	0.030	0.045	0.389	101
22665	16	5	0.030	0.045	0.425	116
22666	16	6	0.030	0.045	0.462	137
22667	16	7	0.030	0.045	0.462	147
22668	16	8	0.030	0.045	0.500	171
22669	16	9	0.030	0.060	0.567	194
22670	16	10	0.030	0.060	0.590	205
22672	16	12	0.030	0.060	0.621	243
22675	16	15	0.030	0.060	0.682	294
22679	16	19	0.030	0.060	0.738	357
22680	16	20	0.030	0.060	0.760	372
22684	16	24	0.030	0.080	0.866	460
22685	16	25	0.030	0.080	0.877	480
22686	16	26	0.030	0.080	0.891	506
22690	16	30	0.030	0.080	0.950	570
22696	16	36	0.030	0.080	1.024	656
22697	16	37	0.030	0.080	1.024	671
22502	14	2 (Flat)	0.030	0.045	0.230x0.367	73
22503	14	3	0.030	0.045	0.387	109
22504	14	4	0.030	0.045	0.423	123
22505	14	5	0.030	0.045	0.462	158
22506	14	6	0.030	0.045	0.504	176
22507	14	7	0.030	0.045	0.504	189
22508	14	8	0.030	0.060	0.576	230
22509	14	9	0.030	0.060	0.617	257
22510	14	10	0.030	0.060	0.643	279
22512	14	12	0.030	0.060	0.677	318
22515	14	15	0.030	0.060	0.746	415
22519	14	19	0.030	0.060	0.808	545
22520	14	20	0.030	0.080	0.872	573
22524	14	24	0.030	0.080	0.946	668
22525	14	25	0.030	0.080	0.958	691
22526	14	26	0.030	0.080	0.974	708
22530	14	30	0.030	0.080	1.039	801
22536	14	36	0.030	0.080	1.122	916
22537	14	37	0.030	0.080	1.122	940

NOTE: #16 AWG not XHHW-2 Rated. Also available in EPR-CPE 600 Volt. Check sales office for price and availability.

VW-1 XHHW-2 INSULATION WITH HYPALON® JACKET TYPE TC
600 VOLT, 90°C WET AND DRY

Construction

Conductors:
- Coated annealed cooper.
- ASTM B-33 and B-189.
- Concentric stranded class B (7 strands).
- ASTM B-8, UL-44 paragraph 12.4 and UL-62 paragraph 10.2 (A suitable separator is applied between the conductor and insulation to facilitate stripping).

Insulation:
- VW-1 crosslinked polyethylene (Thermoset).

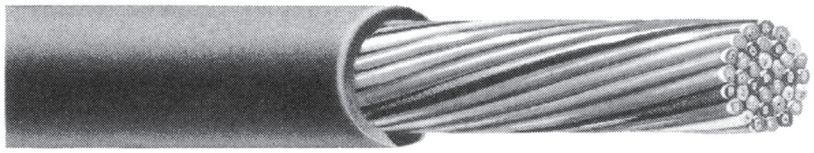
Cabling:
- Three or more conductors are assembled round with flame resistant, nonhygroscopic and non-wicking neoprene fillers as needed. A flame resistant, non-hygroscopic and non-wicking tape binder is applied over the assembly. Two conductors are assembled flat parallel (round, with neoprene fillers as needed, is available upon request).

Overall Jacket:
- Heavy duty, flame and sunlight resistant Hypalon® (black) (Thermoset).

Color Coding:
- ICEA Method 1 using solid colors with stripes in accordance with Table K-2.
- See Chart #24.

Scope:
- This specification covers multiconductors having stranded, coated copper conductors; flame resistant crosslinked polyethylene insulation, and a heavy duty flame and sunlight resistant Hypalon® jacket. Cables conform to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1984 NEC, Subject 1277 of Underwriters Laboratories, Inc. and ICEA S-66-524, and meet the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383. Cables are rated 600 volts, 90°C dry and wet. Sizes 14, 12 and 10 AWG conductors are XHHW rated (VW-1). Also meets IEEE-1202, ICEA T-29-520, T30-520 and FT-4.

Applications:
- UL listed and OSHA acceptable.
- Recognized for use in Class 1, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts, conduit and aerially where supported by a messenger.
- Specifically approved for direct burial, wet and dry locations and outdoors in cable trays where a sunlight resistant rating is required.
- Designed for control, power, lighting, telemetering, signal and relay or traffic control where a low loss, high temperature insulation is specified.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
22562	12	2 (Flat)	0.030	0.045	0.250x0.407	90
22563	12	3	0.030	0.045	0.430	144
22564	12	4	0.030	0.045	0.471	184
22565	12	5	0.030	0.060	0.546	233
22566	12	6	0.030	0.060	0.594	259
22567	12	7	0.030	0.060	0.594	286
22568	12	8	0.030	0.060	0.642	316
22569	12	9	0.030	0.060	0.689	335
22570	12	10	0.030	0.060	0.719	363
22572	12	12	0.030	0.060	0.758	446
22575	12	15	0.030	0.080	0.877	563
22579	12	19	0.030	0.080	0.948	735
22580	12	20	0.030	0.080	0.976	769
22584	12	24	0.030	0.080	1.061	891
22585	12	25	0.030	0.080	1.075	921
22586	12	26	0.030	0.080	1.092	952
22590	12	30	0.030	0.080	1.167	1080
22596	12	36	0.030	0.080	1.262	1283
22597	12	37	0.030	0.080	1.262	1332
22602	10	2 (Flat)	0.030	0.045	0.274x0.455	127
22603	10	3	0.030	0.045	0.482	185
22604	10	4	0.030	0.060	0.559	246
22605	10	5	0.030	0.060	0.611	309
22606	10	6	0.030	0.060	0.666	333
22607	10	7	0.030	0.060	0.666	362
22608	10	8	0.030	0.060	0.722	406
22609	10	9	0.030	0.060	0.776	499
22610	10	10	0.030	0.060	0.810	539
22612	10	12	0.030	0.080	0.896	673
22615	10	15	0.030	0.080	0.986	789
22619	10	19	0.030	0.080	1.068	953
22620	10	20	0.030	0.080	1.100	999
22624	10	24	0.030	0.080	1.198	1217
22625	10	25	0.030	0.080	1.214	1260
22626	10	26	0.030	0.080	1.234	1314
22630	10	30	0.030	0.080	1.321	1525
22636	10	36	0.030	0.080	1.430	1844
22637	10	37	0.030	0.080	1.430	1900
			SHIELDED			
22420	18	2	0.030	0.045	0.317	55
22421	18	3	0.030	0.045	0.333	68
22440	16	2	0.030	0.045	0.341	72
22441	16	3	0.030	0.045	0.359	84
22460	14	2	0.030	0.045	0.369	97
22461	14	3	0.030	0.045	0.389	117
22480	12	2	0.030	0.045	0.409	120
22481	12	3	0.030	0.045	0.432	152

NOTE: Shielded items have aluminum mylar shield and stranded drain wire.
Also available in EPR-CPE 600 Volt. Check sales office for price and availability.
#16 AWG not XHHW-2 Rated.

OSHA Acceptable
Occupational Safety and Health Administration

UL® LISTED

Passes IEEE 383 UL 70,000 BTU Flame Test

Custom Cable Corp.

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MULTI CONDUCTOR STAGE AND CONTROL CABLE

NVN®-THHN TYPE TC TRAY CABLE THERMOSETTING JACKET 600 VOLT, SMALL DIAMETER, UL LISTED 90°C DRY 75°C WET

C

Construction

Description:

- Stranded bare copper conductors, color-coded vinyl insulation jacketed with nylon, conductors cabled with non-wicking fillers (as required), cable tape; heavy duty black, sunlight resistant thermosetting jacket overall.

Color Code:

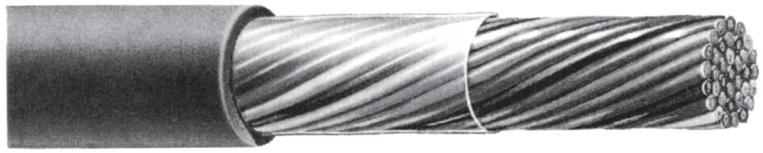
- ICEA Method K2.
- See Chart #24.

Features:

- Small diameter construction.
- Nylon covered insulation for maximum gas, oil & chemical resistance.
- Suitable for indoor or outdoor environments.
- 90°C rating maximum ampacity.
- Flame retardant (meets 70,000 & 210,000 BTU/hr. tray fire test).
- UL listed for NEC applications.

Applications:

- Ideal for installations with tight space requirements, NVN®-THHN. Flexible cables can be used for control circuits in locations such as shipyards, port facilities, steel mills, paper, cement, glass, textile, chemical and petroleum plants.
- Typical applications include:
  (a) Tight installations.
  (b) Tray, conduit and raceways.
  (c) Cranes and hoists.
  (d) Pendant stations.
  (e) Load lifts and platforms.
  (f) Messenger systems.
  (g) Direct burial.
  (h) Stage lighting.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	NYLON	JACKET	INCHES	LBS/MFT
12002	16	2	19/0.0117	0.015	0.005	0.045	0.300	52
12003	16	3	19/0.0117	0.015	0.005	0.045	0.315	63
12004	16	4	19/0.0117	0.015	0.005	0.045	0.345	79
12005	16	5	19/0.0117	0.015	0.005	0.045	0.370	91
12006	16	6	19/0.0117	0.015	0.005	0.045	0.400	106
12007	16	7	19/0.0117	0.015	0.005	0.045	0.400	115
12008	16	8	19/0.0117	0.015	0.005	0.045	0.435	132
12009	16	9	19/0.0117	0.015	0.005	0.045	0.465	147
12010	16	10	19/0.0117	0.015	0.005	0.045	0.505	162
12012	16	12	19/0.0117	0.015	0.005	0.045	0.520	186
12014	16	14	19/0.0117	0.015	0.005	0.060	0.575	228
12016	16	16	19/0.0117	0.015	0.005	0.060	0.605	257
12019	16	19	19/0.0117	0.015	0.005	0.060	0.635	294
12020	16	24	19/0.0117	0.015	0.005	0.060	0.735	363
12025	16	30	19/0.0117	0.015	0.005	0.060	0.780	454
12030	16	37	19/0.0117	0.015	0.005	0.080	0.880	564
12102	14	2	19/0.0147	0.015	0.005	0.045	0.330	66
12103	14	3	19/0.0147	0.015	0.005	0.045	0.350	85
12104	14	4	19/0.0147	0.015	0.005	0.045	0.380	105
12105	14	5	19/0.0147	0.015	0.005	0.045	0.415	124
12106	14	6	19/0.0147	0.015	0.005	0.045	0.445	145
12107	14	7	19/0.0147	0.015	0.005	0.045	0.445	158
12108	14	8	19/0.0147	0.015	0.005	0.045	0.485	181
12109	14	9	19/0.0147	0.015	0.005	0.060	0.550	220
12110	14	10	19/0.0147	0.015	0.005	0.060	0.595	241
12112	14	12	19/0.0147	0.015	0.005	0.060	0.615	278
12114	14	14	19/0.0147	0.015	0.005	0.060	0.645	316
12116	14	16	19/0.0147	0.015	0.005	0.060	0.675	353
12119	14	19	19/0.0147	0.015	0.005	0.060	0.710	407
12120	14	24	19/0.0147	0.015	0.005	0.080	0.870	546
12125	14	30	19/0.0147	0.015	0.005	0.080	0.920	657
12130	14	37	19/0.0147	0.015	0.005	0.080	0.985	784

NOTE: Numbers are also printed on wire.

*We reserve the right to supply NVN, SDN, LTN or SDC.

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MULTI CONDUCTOR STAGE AND CONTROL CABLE

NVN®-THHN TYPE TC TRAY CABLE THERMOSETTING JACKET 600 VOLT, SMALL DIAMETER, UL LISTED 90°C DRY 75°C WET

Construction

Description:

- Stranded bare copper conductors, color-coded vinyl insulation jacketed with nylon, conductors cabled with non-wicking fillers (as required), cable tape; heavy duty black, sunlight resistant thermosetting jacket overall.

Color Code:

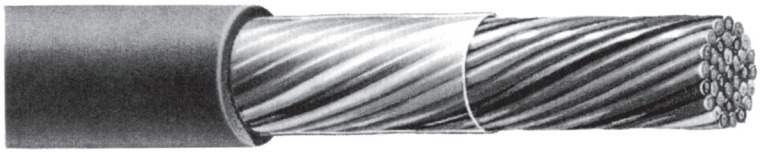
- ICEA Method K2.
- See Chart #24.

Features:

- Small diameter construction.
- Nylon covered insulation for maximum gas, oil & chemical resistance.
- Suitable for indoor or outdoor environments.
- 90°C rating maximum ampacity.
- Flame retardant (meets 70,000 & 210,000 BTU/hr tray fire test).
- UL listed for NEC applications.

Applications:

- Ideal for installations with tight space requirements, NVN®-THHN. Flexible cables can be used for control circuits in locations such as shipyards, port facilities, steel mills, paper, cement, glass, textile, chemical and petroleum plants.
- Typical applications include:
  (a) Tight installations.
  (b) Tray, conduit and raceways.
  (c) Cranes and hoists.
  (d) Pendant stations.
  (e) Load lifts and platforms.
  (f) Messenger systems.
  (g) Direct burial.
  (h) Stage lighting.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND.'S	STRAND	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	NYLON	JACKET	INCHES	LBS/MFT
12202	12	2	19/0.0185	0.015	0.005	0.045	0.370	89
12203	12	3	19/0.0185	0.015	0.005	0.045	0.390	115
12204	12	4	19/0.0185	0.015	0.005	0.045	0.425	145
12205	12	5	19/0.0185	0.015	0.005	0.045	0.460	170
12206	12	6	19/0.0185	0.015	0.005	0.045	0.505	205
12207	12	7	19/0.0185	0.015	0.005	0.045	0.505	239
12208	12	8	19/0.0185	0.015	0.005	0.060	0.575	272
12209	12	9	19/0.0185	0.015	0.005	0.060	0.620	308
12210	12	10	19/0.0185	0.015	0.005	0.060	0.670	336
12212	12	12	19/0.0185	0.015	0.005	0.060	0.690	389
12214	12	14	19/0.0185	0.015	0.005	0.060	0.725	445
12216	12	16	19/0.0185	0.015	0.005	0.060	0.765	503
12219	12	19	19/0.0185	0.015	0.005	0.060	0.805	582
12220	12	24	19/0.0185	0.015	0.005	0.080	0.980	768
12225	12	30	19/0.0185	0.015	0.005	0.080	1.040	935
12230	12	37	19/0.0185	0.015	0.005	0.080	1.120	1127
12235	12	37	65/0.0100	0.015	0.005	0.080	1.120	1127

NOTE: Numbers are also printed on wire.

*We reserve the right to supply NVN®, SDN®, LTN® or SDC®.

C

UL® LISTED

Passes UL 70,000 BTU Flame Test

Passes 210,000 BTU Flame Test

Custom Cable Corp.

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PVC FLAT FESTOON CABLE

-40°C TO 105°C - UL AND CSA

C

Construction

Conductors:

- Extra flexible stranding, soft drawn uncoated copper per ASTM B-3, ASTM B-172, UL-62 and CSA Bulletin 147.

Insulation:

- Color coded, flame and oil-resistant 105°C PVC per UL-62 (CSA FT-1 Flame Rated).

Jacket:

- Available in either yellow or black flame and oil-resistant PVC UL VW-1 and CSA FT-1. Part numbers shown are black. Please specify yellow when ordering.

Applications:

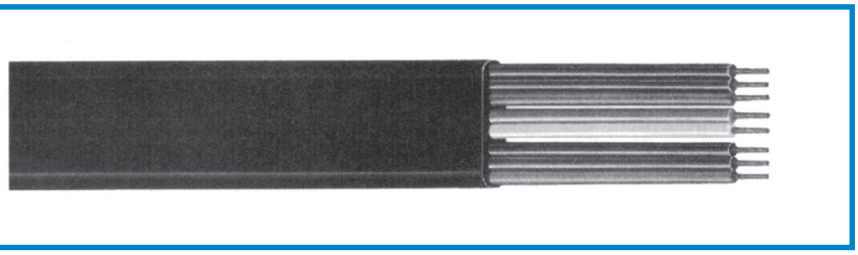
- Primarily designed for use with festoon systems for the conveyance of electrical power and control to cranes, hoists, or any equipment which travels with a lateral traversing motion. Cables can also be used where space is at a premium, since it can be stacked; or where extreme flexing is a requirement, recommended bend radius of three to five times cable diameter. PVC Festoon Cables are suitable for either indoor or outdoor applications operating at -40°C to 105°C. However, they are not recommended for severe flexing or impact at temperatures below -10°C. For severe flexing applications below -10°C specify Neoprene Festoon Cables.
- Five conductor black PVC cables are widely used in convention halls and exhibit centers as under carpet cables for distribution and booth lighting.

Features:

- Easy stacking of multiple cables in smaller space.
- Enhanced stability in outdoor applications against crosswinds.
- Maintains cable integrity.
- Reduces conductor stress and increases Flex-Life.
- Easy jacket stripping.

Industry Approvals:

- UL Listed and CSA Certified 600 Volts -40°C to 105°C.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL O.D. (INCHES)	CURRENT (AMPS)	NOMINAL WEIGHT LBS/MFT
39390	16	4	65/34	0.030	0.225x0.630	17	108
39391	16	8	65/34	0.030	0.225x1.170	15	194
39392	16	12	65/34	0.030	0.225x1.700	15	292
39393	14	4	105/34	0.030	0.240x0.690	20	138
39394	14	8	105/34	0.030	0.240x1.290	18	254
39395	14	12	105/34	0.030	0.240x1.825	18	380
39396	12	4	65/30	0.030	0.260x0.800	25	180
39397	12	8	65/30	0.030	0.260x1.440	22	343
39398	10	4	105/30	0.030	0.290x0.890	32	239
39399	8	4	168/30	0.045	0.375x1.225	45	401
39400	6	4	259/30	0.060	0.435x1.490	60	620
39401	4	4	413/30	0.060	0.515x1.750	78	896
39402	2	4	665/30	0.060	0.575x1.975	104	1278
FIVE CONDUCTOR FLAT CABLE (CONVENTION CENTER TYPES)							
39430	12	5	65/30	0.030	0.260x0.990	22	230
39431	10	5	105/30	0.030	0.290x1.150	32	330
39432	6	5	259/30	0.060	0.450x1.920	60	800
39433	4	5	413/30	0.060	0.515x2.175	78	1170
39434	2	5	665/30	0.060	0.575x2.550	104	1760
SHIELDED FLAT CABLE (EACH CONDUCTOR HAS T. C. BRAID SHIELD)							
39440	16	4	65/34	0.030	0.250x0.800	17	162
39441	16	8	65/34	0.030	0.260x1.440	15	322
39442	16	12	65/34	0.030	0.260x2.125	15	456
39443	14	12	105/34	0.030	0.270x2.200	18	521

Note: Also available in European specifications.

FLAT-FLEX® COLOR CODE						FIVE CONDUCTOR COLOR CODE			
						SIZES 12-10 AWG		SIZES 6-2 AWG	
Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Conductor Number	Base Color
1	Black	—	7	Red	Black	1	Black	1	Orange
2	Red	—	8	Blue	Black	2	White	2	Yellow
3	Blue	—	9	Orange	Black	3	Green	3	Green
4	Orange	—	10	Yellow	Black	4	Red	4	Grey
5	Yellow	—	11	Brown	Black	5	Blue	5	Brown
6	Brown	—	12	Black	Red				

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

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PVC FLAT FESTOON CABLE

-40°C TO 105°C - UL AND CSA

C

Construction

Conductors:

- Extra flexible stranding, soft drawn uncoated copper per ASTM B-3, ASTM B-172, UL-62 and CSA Bulletin 147.

Insulation:

- Color coded, flame and oil-resistant 105°C PVC per UL-62 (CSA FT-1 Flame Rated).

Jacket:

- Available in either yellow or black flame and oil-resistant PVC UL VW-1 and CSA FT-1. Part numbers shown are black. Please specify yellow when ordering.

Applications:

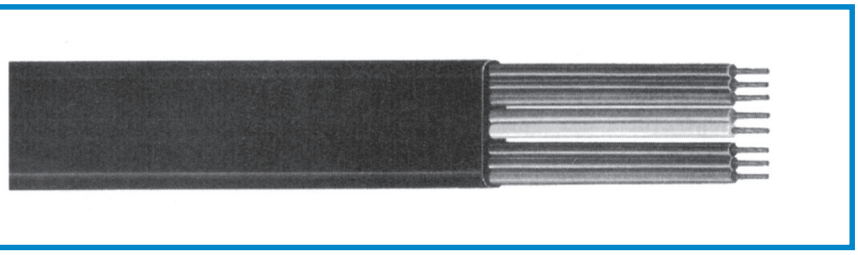
- Primarily designed for use with festoon systems for the conveyance of electrical power and control to cranes, hoists, or any equipment which travels with a lateral traversing motion. Cables can also be used where space is at a premium, since it can be stacked; or where extreme flexing is a requirement, recommended bend radius of three to five times cable diameter. PVC Festoon Cables are suitable for either indoor or outdoor applications operating at -40°C to 105°C. However, they are not recommended for severe flexing or impact at temperatures below -10°C. For severe flexing applications below -10°C specify Neoprene Festoon Cables.
- Five conductor black PVC cables are widely used in convention halls and exhibit centers as under carpet cables for distribution and booth lighting.

Features:

- Easy stacking of multiple cables in smaller space.
- Enhanced stability in outdoor applications against crosswinds.
- Maintains cable integrity.
- Reduces conductor stress and increases Flex-Life.
- Easy jacket stripping.

Industry Approvals:

- UL Listed and CSA Certified 600 Volts -40°C to 105°C.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL O.D. (INCHES)	CURRENT (AMPS)	NOMINAL WEIGHT LBS/MFT
39390	16	4	65/34	0.030	0.225x0.630	17	108
39391	16	8	65/34	0.030	0.225x1.170	15	194
39392	16	12	65/34	0.030	0.225x1.700	15	292
39393	14	4	105/34	0.030	0.240x0.690	20	138
39394	14	8	105/34	0.030	0.240x1.290	18	254
39395	14	12	105/34	0.030	0.240x1.825	18	380
39396	12	4	65/30	0.030	0.260x0.800	25	180
39397	12	8	65/30	0.030	0.260x1.440	22	343
39398	10	4	105/30	0.030	0.290x0.890	32	239
39399	8	4	168/30	0.045	0.375x1.225	45	401
39400	6	4	259/30	0.060	0.435x1.490	60	620
39401	4	4	413/30	0.060	0.515x1.750	78	896
39402	2	4	665/30	0.060	0.575x1.975	104	1278
FIVE CONDUCTOR FLAT CABLE (CONVENTION CENTER TYPES)							
39430	12	5	65/30	0.030	0.260x0.990	22	230
39431	10	5	105/30	0.030	0.290x1.150	32	330
39432	6	5	259/30	0.060	0.450x1.920	60	800
39433	4	5	413/30	0.060	0.515x2.175	78	1170
39434	2	5	665/30	0.060	0.575x2.550	104	1760
SHIELDED FLAT CABLE (EACH CONDUCTOR HAS T. C. BRAID SHIELD)							
39440	16	4	65/34	0.030	0.250x0.800	17	162
39441	16	8	65/34	0.030	0.260x1.440	15	322
39442	16	12	65/34	0.030	0.260x2.125	15	456
39443	14	12	105/34	0.030	0.270x2.200	18	521

Note: Also available in European specifications.

FLAT-FLEX® COLOR CODE						FIVE CONDUCTOR COLOR CODE			
						SIZES 12-10 AWG		SIZES 6-2 AWG	
Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Conductor Number	Base Color
1	Black	—	7	Red	Black	1	Black	1	Orange
2	Red	—	8	Blue	Black	2	White	2	Yellow
3	Blue	—	9	Orange	Black	3	Green	3	Green
4	Orange	—	10	Yellow	Black	4	Red	4	Grey
5	Yellow	—	11	Brown	Black	5	Blue	5	Brown
6	Brown	—	12	Black	Red				

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

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NEOPRENE FLAT FESTOON CABLE

-50°C TO 90°C - UL AND CSA - 600 VOLT

Construction

Conductor:
- Extra flexible stranding, soft drawn uncoated copper per ASTM B-33, ASTM B-174, UL-62.

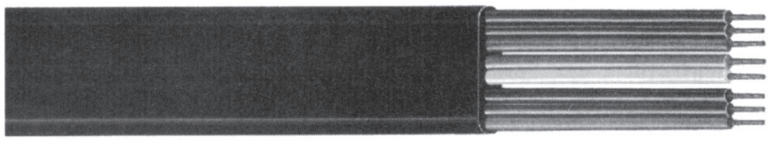
Insulation:
- Color coded, Thermoset (EPDM) insulation, colored or printed for easy conductor identification.

Jacket:
- Black, oil and flame resistant. Thermoset (Neoprene) jacket.

Applications:
- Neoprene Festooning Cable is primarily designed for use with festoon systems for the conveyance of electrical power and control to cranes, hoists, or any equipment which travels with a lateral transversing motion. Festoon Cables can also be used where space is at a premium, since it can be stacked; or where extreme flexing is a requirement, recommended bend radius of three to five times cable diameter. Neoprene Festoon Cables are suitable for either indoor or outdoor applications operating at -50°C to 90°C.

Features:
- Easy stripping.
- Easy stacking of multiple cables in smaller space.
- Enhanced stability in outdoor applications against crosswinds.
- Maintains cable integrity.
- Reduces conductor stress and increases Flex-Life.
- Easy jacket stripping.

Industry Approvals:
- UL Listed and CSA Certified 600 Volts -50°C to 90°C.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL O.D. (INCHES)	CURRENT (AMPS)	NOMINAL WEIGHT LBS/MFT
39445	16	8	26/30	0.030	0.245x1.195	14	226
39446	16	12	26/30	0.030	0.245x1.730	14	330
39450	14	4	41/30	0.045	0.295x0.865	18	191
39451	14	8	41/30	0.045	0.295x1.610	16	361
39452	14	12	41/30	0.045	0.295x2.355	16	531
39460	12	4	65/30	0.045	0.315x0.945	23	242
39461	12	8	65/30	0.045	0.315x1.770	20	461
39463	10	4	105/30	0.045	0.340x1.045	29	312
39465	8	4	168/30	0.060	0.450x1.405	41	552
39467	6	4	266/30	0.060	0.485x1.540	55	728
39469	4	4	420/30	0.060	0.535x1.740	71	1001
39471	2	4	665/30	0.060	0.600x2.000	95	1404
39473	1/0	4	1045/30	0.080	0.805x2.730	132	2292
39475	2/0	4	1330/30	0.080	0.820x2.790	149	2763
39477	3/0	4	1672/30	0.080	0.850x2.910	167	3255
39479	4/0	4	2107/30	0.080	0.980x3.435	188	4215

Note: Also available in European specifications.

COLOR CODE CHART

FLAT-FLEX® COLOR CODE		
Conductor Number	Base Color	Stripe Color
4 CONDUCTORS		
1	Brown	—
2	Blue	—
3	Green	Yellow
4	Black	—
GREATER THAN 4 CONDUCTORS		
Black / Printed Numbers, with one Green / Yellow Stripe		

PENDANT AND REEL CONTROL CABLE

600 VOLT - TYPE SOW-A RATED 90°C

C

Construction

Conductors:
- Extra-flexible stranding (Class K), soft drawn tinned copper; per ASTM B-33, ASTM B-172, and UL-62.
- High flexibility and increased flex-life, reduces copper fatigue and conductor breakage, easy to solder and resists corrosion.

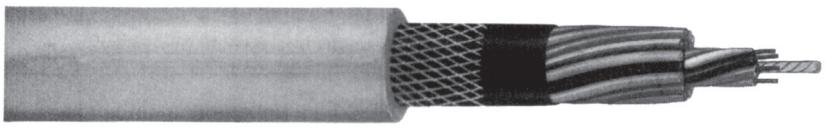
Separator:
- Paper separator.
- Easy stripping.

Insulation:
- Color-coded thermoset (EPDM) 90°C insulation with nylon jacket, per UL-62 and ICEA S-68-516.
- Color Code: See Chart #2.

Cabling:
- Conductors are cabled (maximum of two layers) with non-wicking, non-hygroscopic fillers around a glass strength member, and an overall binder of rubberized fabric tape and reinforced braid.
- Increased mechanical strength and impact resistance, and exceptional performance in severe flexing applications.

Jacket:
- Bright yellow flame and oil-resistant thermoset (NBR/ PVC) jacket per UL-62 and ICEA S-68-516.
- Suitable for use indoors and outdoors in severe flexing applications where oil, chemicals, and extreme temperatures are considerations.

Applications:
- Pendant and Reel Control Cable is designed and manufactured for use in continuous flexing applications where flame, abrasion, chemicals, moisture, impact, tearing, and temperature extremes are considerations. Applications include portable control, festoon systems, power tracks, cable tenders, cranes and hoists, aerotracks, power carriage systems, cable reels, retractable reels, automatic welders, transfer vehicles, and other abusive flexing applications. Cables are suitable for use indoors or outdoors.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)			NOMINAL O.D.	CURRENT (AMPS)	NOMINAL WEIGHT
	AWG/MCM			INSUL.	NYLON	JACKET	INCHES		LBS/MFT
39151	16	6	26/30	0.030	0.004	0.080	0.590	13	201
39153	16	8	26/30	0.030	0.004	0.095	0.700	11	278
39155	16	10	26/30	0.030	0.004	0.095	0.755	11	299
39156	16	12	26/30	0.030	0.004	0.095	0.775	11	342
39158	16	16	26/30	0.030	0.004	0.095	0.845	11	416
39160	16	20	26/30	0.030	0.004	0.095	0.925	11	506
39162	16	24	26/30	0.030	0.004	0.110	1.040	10	640
39166	16	30	26/30	0.030	0.004	0.110	1.165	10	823
39167	16	36	26/30	0.030	0.004	0.125	1.320	10	1048
39179	14	6	41/30	0.045	0.004	0.095	0.775	18	328
39181	14	8	41/30	0.045	0.004	0.095	0.890	16	447
39184	14	12	41/30	0.045	0.004	0.110	1.020	16	568
39186	14	16	41/30	0.045	0.004	0.110	1.120	16	714
39190	14	20	41/30	0.045	0.004	0.125	1.265	16	897
39191	14	24	41/30	0.045	0.004	0.125	1.375	14	1084
39203	12	8	65/30	0.045	0.004	0.110	0.990	19	591
39206	12	12	65/30	0.045	0.004	0.110	1.100	19	708
39208	12	16	65/30	0.045	0.004	0.110	1.215	19	899
39211	12	20	65/30	0.045	0.004	0.125	1.370	19	1144
39212	12	24	65/30	0.045	0.004	0.125	1.495	16	1378
39218	12	30	65/30	0.045	0.004	0.125	1.690	16	1796
39219	12	36	65/30	0.045	0.004	0.156	1.940	16	2374

MSHA Mine Safety and Health Administration

UL® LISTED

TYPE STOW-A PENDANT AND REEL CONTROL CABLE

600 VOLT 105°C UL & CSA

Construction

Conductor:
- Extra flexible, soft annealed bunch stranded bare copper per ASTM Standards B3 and B174.

Insulation:
- 105˚C Color coded PVC per UL-62 and CSA C22.2 No. 49.

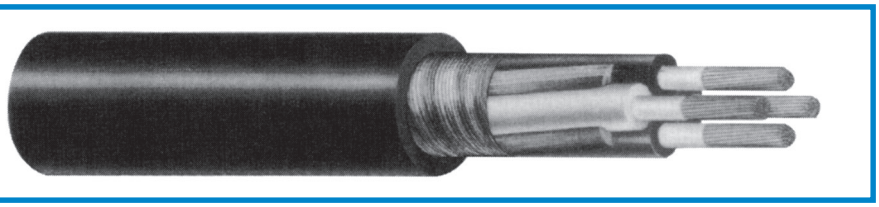
Jacket:
- Glossy vibrant yellow PVC per UL-62 and CSA C22.2 No. 49.
- Outstanding flexibility and abrasion resistant.

Applications:
- Portable control.
- Festoon systems.
- Pendant stations.
- Power tracks.
- Cranes and hoists.
- Power carriage systems.
- Cable reels.
- Retractable reels and other flexible applications.

Features:
- Cable is designed to provide maximum flex-life under the most demanding continuous flexing conditions where flame, chemicals, moisture and temperature extremes are considerations.

Industry Approvals:
- UL Listed Type STOW-A.
- 105°C VW-1 and CSA certified type STOW 105°C FT1.

Other options available including shielded components, overall shields, composite conductors and with two (2) steel supports added for strain relief.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	CURRENT AMPS(1)	NOMINAL WEIGHT LBS/MFT
39353	16	8	65/34	0.030	0.080	0.670	7	230
39354	16	12	65/34	0.030	0.095	0.750	7	310
39355	16	16	65/34	0.030	0.095	0.855	7	395
39356	16	20	65/34	0.030	0.095	0.910	7	460
39357	16	24	65/34	0.030	0.095	0.940	6	520
39358	16	36	65/34	0.030	0.110	1.135	6	760
39361	14	4	105/34	0.045	0.080	0.610	12	205
39362	10	4	105/30	0.045	0.095	0.760	20	355
WITH A STEEL CORE								
39359	16	3	65/34	0.030	0.060	0.535	8	135
39360	16	7	65/34	0.030	0.080	0.610	7	215
WITH STRAIN RELIEF AND TWO GALVANIZED STEEL SUPPORTS (1/16")								
39363	16	12	65/34	0.030	0.060	0.695 x 1.085	7	315
39364	16	16	65/34	0.030	0.060	0.775 x 1.185	7	405

(1) Ampacity based on single cable in free air 30°C ambient, 105°C conductor temperature.

COLOR CODE

Conductor Number	Base Color	Stripe Color	Conductor Number	Base Color	Stripe Color
1	Green		19	Red	Blue
2	Black		20	Orange	Blue
3	Red		21	Yellow	Blue
4	Blue		22	Brown	Blue
5	Orange		23	Black	Orange
6	Yellow		24	Red	Orange
7	Brown		25	Blue	Orange
8	Red	Black	26	Yellow	Orange
9	Blue	Black	27	Brown	Orange
10	Orange	Black	28	Black	Yellow
11	Yellow	Black	29	Red	Yellow
12	Brown	Black	30	Blue	Yellow
13	Black	Red	31	Orange	Yellow
14	Blue	Red	32	Brown	Yellow
15	Orange	Red	33	Black	Brown
16	Yellow	Red	34	Red	Brown
17	Brown	Red	35	Blue	Brown
18	Black	Blue	36	Orange	Brown

XHHW-2 TRAY CABLE — UNSHIELDED

TYPE TC CPE JACKET 90°C, WET OR DRY, 600 VOLT

C

Construction

Conductor:
- 7 Strand Annealed Tinned Copper Conforming to ASTM B33 and B8.

Insulation:
- A chemically Crosslinked Polyethylene (XLP) applied concentrically over each conductor, color coded XHHW-2 color coded per table E-2 Method 1. See Chart #24.

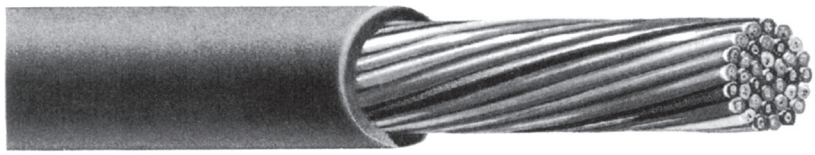
Cable Assembly:
- The applicable number of conductors are cabled together with grounding conductor (**if requested**) and fillers (as necessary) to form a round core. A clear mylar tape is wrapped over the core.

Outer Jacket:
- A black flame, moisture, oil and sunlight resistant Chlorinated Polyethylene (CPE) jacket meeting requirements of UL1277 Table 11.1 shall be applied concentrically overall. A nylon rip cord is placed under the jacket to facilitate stripping of jacket.

Testing:
- UL Standard 1277 for Type TC Power and Control Cables.

Features:
- Suitable for use in cable trays, raceways, direct burial or supported by a messenger for use at voltage ratings not exceeding 90°C in wet or dry locations.
- These cables shall conform to (UL) Type TC Power and Control Tray Cables and National Electrical Code, Articles 336, 392, 500, and 501.
- These cables pass the IEEE 383 70,000 BTU Flame Test, the IEEE 1202/FT4 Flame Test, and the ICEA T-29 520 210,000 BTU Flame Test. Cables pass a -40°C Cold Bend Test.

Meets:
- IEEE 383, 70,000 BTU Flame Test, IEEE 12101/FT Flame Test, and ICEA T-29 520 210,000 BTU Flame Test. Cables pass -40°C Cold Bend Test.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF CONDUCTORS	NOM. JACKET THICKNESS (MILS)	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS./MFT
STRANDED					
23400	14	2	45	0.365	61
23401	14	3	45	0.385	79
23402	14	4	45	0.420	100
23403	14	5	45	0.460	122
23404	14	7	45	0.500	159
23405	14	9	60	0.610	222
23406	14	12	60	0.675	276
23407	14	15	60	0.745	334
23408	14	19	60	0.805	407
23409	14	25	80	0.955	579
23410	14	30	80	1.035	657
23411	14	37	80	1.120	788
23500	12	2	45	0.400	83
23501	12	3	45	0.425	108
23502	12	4	45	0.465	137
23503	12	5	45	0.510	169
23504	12	7	60	0.585	240
23505	12	9	60	0.680	303
23506	12	12	60	0.755	389
23507	12	15	60	0.840	479
23508	12	19	80	0.940	606
23509	12	25	80	1.065	782
23510	12	30	80	1.160	923
23511	12	37	80	1.250	1118
23600	10	2	45	0.450	110
23601	10	3	45	0.475	151
23602	10	4	60	0.550	208
23603	10	5	60	0.605	254
23604	10	7	60	0.660	336
23605	10	9	60	0.765	432
23606	10	12	80	0.890	581

*** Also available with bare copper.**

**** Also available with aluminium mylar shield and drain or copper tape shield. Please specify when ordering.**

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CONTROL CABLE

FR-EPR/CPE - UNSHIELDED
600 VOLT, UL TYPE TC-ER[1]

Construction

Conductor:
- 14 Thru 10 AWG fully annealed stranded tinned copper per ASTM B33.
- Class B stranding per ASTM 88.

Insulation:
- Flame-retarded Ethylene Propylene Rubber (FR-EPR) Type II.
- Color-coded: per ICEA Method 1; Table E-2 (Does not include white or green).**

Jacket:
- Flame-retardant thermoplastic Chlorinated Polyethylene (CPE).

Print:
- FREP XX/C XXAWG EPR/CPE (UL) TYPE TC-ER[1] XHHW-2 CDRS 90° WET OR DRY 600V DIR BUR SUN RES DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK.

Applications:
- In free air, raceways or direct burial.
- In wet or dry locations
- Permitted for Exposed Run 'ER' use in accordance with NEC for 3 or more conductors.
- Approved for direct burial, Class I, Div. 2 industrial hazardous locations per NEC.

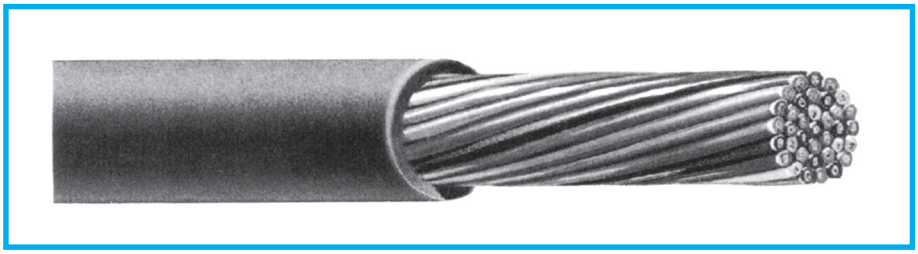
Features:
- Rated 90°C wet or dry.
- Ripcord applied to all cables with jacket thickness of 60 mils or less.
- Excellent physical, thermal, and electric properties.
- Sunlight- and weather-resistant.
- Excellent moisture resistance.
- Excellent resistance to compression cuts and heat deformation.
- Low coefficient of friction for easy pulling.
- Excellent low temperature cold bend characteristics.
- Meets cold bend test at -35°C.
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors.
- Excellent flame resistance - burns to ash; does not exhibit thermoplastic drip.

Compliances:
Industry Compliances:
- UL 44 Type XHHW-2.
- UL 1277 Type TC-ER for 3 or more conductors.
- UL 1581.
- ICEA S-95-658/NEMA WC70.

Flame Tests Compliances:
- UL 1581 VW-1.
- UL 1277.
- IEEE 383.
- IEEE 1202.
- CSA FT-4
- ICEA T-29-520.

Other Compliances:
- EPA 40 CFR, Part 261 for leachable lead content per TCLP.
- OSHA acceptable.

Packaging:
- Material cut to length and shipped on non-returnable wood reels.



CUSTOM CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	MIN. AVG. INSULATION THICKNESS	MIN. AVG. JACKET THICKNESS	NOMINAL CABLE O.D.	NET WEIGHT
				INCHES	INCHES	INCHES	LBS/1000ft.
99701	2 (Flat)	14	7/.0242	0.030	0.045	.365x.230	61
99702	3	14	7/.0242	0.030	0.045	.390	92
99703	4	14	7/.0242	0.030	0.045	.425	115
99704	5	14	7/.0242	0.030	0.045	.465	139
99705	7	14	7/.0242	0.030	0.045	.505	173
99706	9	14	7/.0242	0.030	0.060	.620	240
99707	12	14	7/.0242	0.030	0.060	.700	301
99708*	19	14	7/.0242	0.030	0.060	.815	468
99710	25	14	7/.0242	0.030	0.080	.935	624
99711*	30	14	7/.0242	0.030	0.080	1.030	747
99720	37	14	7/.0242	0.030	0.080	1.110	875
99730	2 (Flat)	12	7/.0305	0.030	0.045	.400x.245	82
99732	3+ (Grnd)	12	7/.0305	0.030	0.045	.410	148
99733	3	12	7/.0305	0.030	0.045	.435	124
99734	4	12	7/.0305	0.030	0.045	.475	157
99735	5	12	7/.0305	0.030	0.045	.520	191
99737	7	12	7/.0305	0.030	0.060	.595	268
99739	9	12	7/.0305	0.030	0.060	.695	337
99740	12	12	7/.0305	0.030	0.060	.765	428
99742*	19	12	7/.0305	0.030	0.080	.940	688
99744*	25	12	7/.0305	0.030	0.080	1.095	854
99746*	30	12	7/.0305	0.030	0.080	1.150	1002
99750*	37	12	7/.0305	0.030	0.080	1.240	1240
99760	2 (Flat)	10	7/.0385	0.030	0.045	.445x.270	113
99761	3+ (Grnd)	10	7/.0385	0.030	0.045	.485	225
99762	3	10	7/.0385	0.030	0.045	.485	172
99763	4	10	7/.0385	0.030	0.060	.560	234
99764	5	10	7/.0385	0.030	0.060	.615	284
99766	7	10	7/.0385	0.030	0.060	.670	381
99768	9	10	7/.0385	0.030	0.060	.760	464
99770	12	10	7/.0385	0.030	0.080	.905	651

Note: Dimensions and weights are nominal; subject to industry tolerances.

* Non-stick item, minimum run apply. Please consult Sales for price and delivery.

[1] Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

**Also available on special run in E-1 color code and shielded versions. Consult factory for details.

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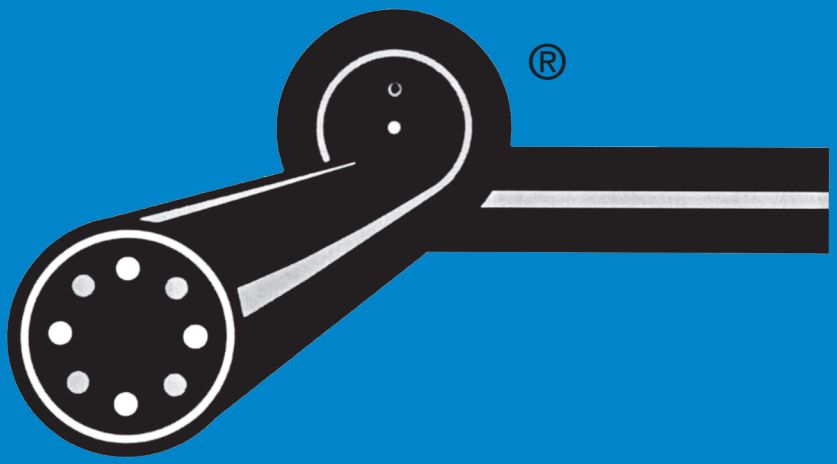
MINING CABLE

INCLUDING DIESEL LOCOMOTIVE CABLE, JUMPER CABLE, NEON SIGN/OIL BURNER CABLE, STAGE LIGHTING CABLE AND WELDING CABLE



D

DLM-DIESEL LOCOMOTIVE CABLE

600 TO 1000 VOLT

Construction

Conductor:
- Extra flexible, tinned, annealed, stranded copper per AAR 589. #8 AWG and smaller are bunch stranded. #6 AWG and larger are rope stranded.

Separator:
- Clean stripping is provided by a suitable separator between the conductor and the insulation.

Insulation:
- A Hypalon® compound rated for continuous duty at 90°C is applied over the conductor in thicknesses required for the voltage rating.

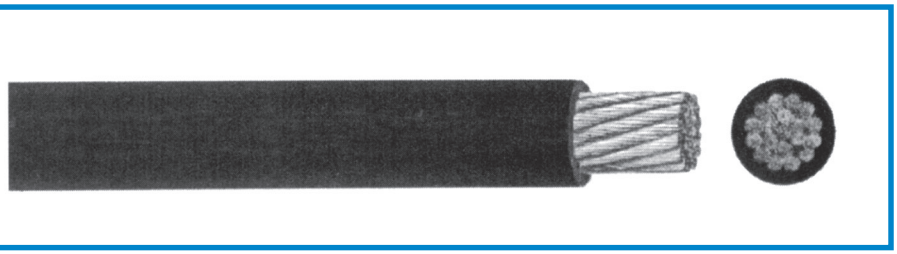
Features:
- 90°C continuous rating.
- Hypalon® insulation/jacket (one-shot).
- Excellent flame resistance.
- Can be UL Listed as Shipboard Cable on special order.
- Tough and abrasion resistant.
- U.S. Coast Guard and American Bureau of Shipping approved for offshore drilling rigs - check factory for approval.
- Extra flexible stranding.

Applications:
- Diesel electric locomotives, oil and gas well drilling rigs, mining and earth moving equipment, general shipyard and shipboard use, motor leads, power and control circuits, apparatus leads and heavy-duty flexing applications.

Testing:
- All testing and inspection is performed in accordance with the applicable requirements of ICEA S-19-81.

Approvals:
- U.S. Coast Guard, American Bureau of Shipping for offshore drilling rig use, AAR 589. Can be UL Listed as shipboard cable on special order.

Rating:
- 600 to 1,000 Volts.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	AMPS(1)	LBS/MFT
HYPALON® (ONE-SHOT) - 600 TO 1,000 VOLT						
9325	16	19/29	0.060	0.210	26	25
9326	14	19/27	0.060	0.220	37	40
9327	12	19/25	0.060	0.240	48	45
9328	10	27/24	0.060	0.270	63	60
9329	8	37/24	0.080	0.320	83	90
9330	6	61/24	0.080	0.380	109	140
9331	4	105/24	0.080	0.440	145	210
9332	2	150/24	0.080	0.520	192	270
9333	1	225/24	0.095	0.610	223	410
9334	1/0	275/24	0.095	0.640	258	480
9335	2/0	325/24	0.095	0.680	298	560
9348	3/0	450/24	0.095	0.790	345	780
9336	4/0	550/24	0.095	0.820	400	910
9337	262.6	650/24	0.110	0.930	458	1060
9338	313.1	775/24	0.110	1.010	514	1270
9339	373.7	925/24	0.110	1.070	574	1470
9340	444.4	1100/24	0.110	1.140	642	1720
9341	535.3	1325/24	0.125	1.270	725	2140
9342	646.4	1591/24	0.125	1.370	815	2600
9343	777.7	1925/24	0.125	1.430	910	2915
9347	1111.0	2745/24	0.140	1.710	1143	4120

(1) Ampacities based on 90°C conductor temperature in a 40°C ambient.

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Passes IEEE 383 70,000 BTU Flame Test

DLM-DIESEL LOCOMOTIVE CABLE

UL RHH/RHW 600 VOLTS CSA R90 1000 VOLT - 90°C 2000 VOLT

Construction

Conductor:
- Extra flexible, tinned, annealed, stranded copper per AAR 589 specifications.

Separator:
- A suitable separator may be used between conductor and insulation.

Insulation:
- Premium grade 90° EPDM.

Jacket:
- Chlorinated polyethylene (CPE) black or we may substitute a Hypalon® jacket.

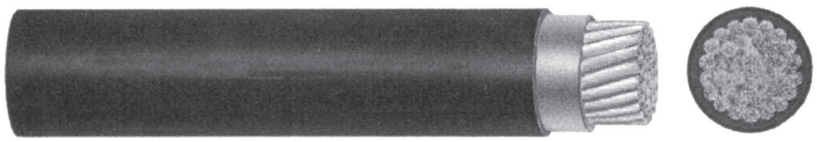
Features:
- 90°C continuous rating.
- Excellent flame resistance - meets IEEE 383 flame test at 70,000 BTU/hr. heat input.
- Can be UL Listed as Shipboard Cable on special order.
- Tough and abrasion resistant EP insulation, Hypalon® jacket resistant to oils, grease and gasoline.
- Extra flexible stranding.

Applications:
- Diesel electric locomotives, oil and gas drilling rigs, mining and earth moving equipment, general shipyard use, motor leads, apparatus leads and heavy-duty flexing applications.
- Telecom power supply.

Approvals:
- MSHA Approved.
- CSA R90
- UL Listed

Rating:
- 2,000 Volts.

Temperature:
- 90°C.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS(1)	LBS/MFT
EPR-CPE (OR) EPR-HYPALON® (TWO-SHOT) - 2000 VOLT							
9228	10	27/24	0.045	0.030	0.260	55	60
9230	8	37/24	0.060	0.030	0.330	83	90
9231	6	61/24	0.060	0.030	0.410	109	140
9232	4	105/24	0.060	0.030	0.460	145	200
9234	2	154/24	0.060	0.030	0.510	192	290
9235	1	224/24	0.080	0.045	0.650	223	450
9236	1/0	280/24	0.080	0.045	0.680	258	520
9237	2/0	329/24	0.080	0.045	0.720	298	590
9238	3/0	456/24	0.080	0.045	0.810	345	780
9239	4/0	551/24	0.080	0.045	0.870	400	980
9240	262.6	650/24	0.095	0.065	1.000	458	1130
9241	313.3	777/24	0.095	0.065	1.060	514	1300
9242	373.7	925/24	0.095	0.065	1.110	574	1570
9243	444.4	1110/24	0.095	0.065	1.230	642	1850
9244	535.3	1332/24	0.120	0.065	1.340	725	2200
9245	646.4	1600/24	0.120	0.065	1.450	815	2545
9246	777.7	1924/24	0.110	0.065	1.540	910	3050
9248	1111.0	2745/24	0.125	0.065	1.830	1143	4350

NOTE: Also available as single layer Hypalon®.

(1) Based on single conductor in free air, 90°C conductor temperature, 40°C ambient temperature per ICEA S-75-381.

D

MSHA Mine Safety and Health Administration

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Certified Canadian Standard Association

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ENTERTAINMENT/STAGE LIGHTING CABLE

105°C 600 VOLT UL TYPE SC AND CSA PPC

Construction

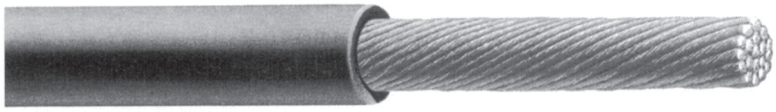
Conductor:
- Extra flexible 30 AWG Class "K" stranding.

Jacket:
- Black heavy-duty 105°C thermosetting chlorinated polyethylene (CPE) that resists oils and solvents.

Temperature:
- -50°C to +105°C.

Features:
- Abrasion resistant.
- Black jacket that resists oils and solvents.
- Rated and flexible at -50°C for use in cold environments.
- Ozone resistant and overall weather resistant.
- Meets or exceeds flame test requirements of MSHA, CSA, and UL.
- Approved for use in City of Los Angeles.
- 20% lighter than Type W.
- Water and sunlight resistant.

Practical Applications:
- Power supply applications not exceeding 600 Volt A.C.
- Portable Lighting Systems.
- Entertainment industry activities such as stage lighting, theaters, concerts, television, motion pictures, mobile communication, vans, spotlights and sound systems.
- Other similar applications that would require permanent or temporary lighting.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL O.D. INCHES	CURRENT AMPS(1)	NOMINAL WEIGHT LBS/MFT
ENTERTAINMENT INDUSTRY & STAGE LIGHTING CABLE 600 VOLT - NEC ARTICLE 520 & 530, +105°C					
23006	6	259/30	0.426	105	150
23007	4	418/30	0.480	140	210
23008	2	660/30	0.560	190	300
23009	1	836/30	0.580	220	365
23010	1/0	1056/30	0.635	260	440
23011	2/0	1320/30	0.665	300	555
23012	3/0	1672/30	0.690	350	640
23013	4/0	2090/30	0.780	405	805

(1) Rated at 30°C ambient per NEC table 400-5(B).

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STAGE LIGHTING CABLE - UL TYPE W

EXTRA FLEXIBLE - 90°C 2000 VOLT - UL LISTED

Construction

Conductor:

- Extra flexible, 30 AWG Class "K" soft, annealed bare copper configured to provide superior flexing characteristics in portable applications in studios.

Insulation:

- Ethylene propylene rubber with exceptional dielectric and mechanical properties. Rated 90°C, 2000 Volts. Has superior overload (130°C) and short circuit (250°C) protection, high tensile strength and resistance to crushing and impact.

Jacket:

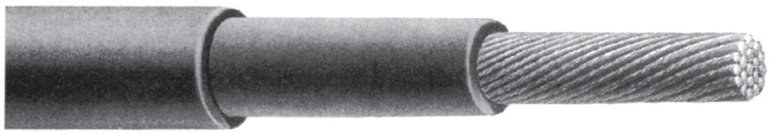
- Black heavy-duty 90°C thermosetting chlorinated polyethylene (CPE) applied directly over an extra strength fiber cord. This open weave braided cord mechanically reinforces the jacket, helping it to retain cable configuration under severe stress conditions. This CPE formulation has superior resistance to crushing, abrasion, aging, weathering, ozone, water and chemicals, -40°C +90°C.

Features:

- UL Listed as "Type W" 2000 Volt 90°C.
- Extra flexible 30 AWG Class "K" stranding.
- Specially designed for studio set lighting and other theater and entertainment applications.
- Complies with applicable sections of NEC Articles 400, 520 and 530.
- Meets flame test requirements of MSHA (Mine Safety and Health Administration).
- 90°C EP rubber for excellent electrical insulation.
- Braid reinforced thermosetting jacket for outstanding performance and long life.
- Water and sunlight resistant.
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals.

Practical Applications:

- Specially designed for portable applications in motion picture and television studios, theaters and other similar locations. The cable is recommended for use as supply conductors for portable stage lighting, portable switchboards and feeders, and other portable stage equipment, and to supply border lights when flexible conductors are required. It is suitable for extra hard use both indoors and out. The cable is also recommended for industrial applications where extra flexible, heavy-duty, UL Listed portable cable is needed.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS(1)	LBS/MFT
STUDIO SET CABLE - TYPE W (UL) 600-2000 VOLT - NEC ARTICLE 520 & 530, +90°C							
21106	6	260/30	0.060	0.095	0.510	105	205
21107	4	418/30	0.060	0.095	0.565	140	260
21108	2	625/30	0.060	0.095	0.650	190	380
21109	1	778/30	0.080	0.095	0.730	220	480
21110	1/0	1056/30	0.080	0.095	0.750	260	535
21111	2/0	1248/30	0.080	0.095	0.800	300	655
21113	4/0	2054/30	0.080	0.095	0.980	405	990

(1) Rated at 30°C ambient per NEC table 400-5(B).

D

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MSHA Mine Safety and Health Administration

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ARC WELDING CABLE

90°C 600 VOLT

Construction

Conductor:
- Flexible, Class K stranded bare copper.

Separator:
- Paper.

Jacket:
- 90°C EPDM Black.

Temperature:
- -40°C to +90°C.

Voltage Rating:
- 600 Volts. As a welding cable . . . for welding cable applications only.

Description:
- 600 volt welding cable features an integral insulation and jacket rated 90°C. Class K stranding (30 AWG) provides the flexibility desired for welding applications. The integral insulation and jacket assures a superior tough cable which is resistant to abrasion, tearing, oils, gasoline and greases. This cable is intended for use as resistance welding leads, connecting electrode holder to welder, and should be used only with secondary voltage typical of welding equipment.

Features:
- Flexible conductors - Class K stranding.
- CPE (thermoset mixture) insulation and jacket.
- Excellent resistance to abrasion and tearing.
- Oil resistant.
- Good color retention.

Practical Applications:
- For connections from electrode holder and clamp to arc welder, bus welding box or transformers. Also useful in applications where high flexibility is desired. Not suitable for in-line voltage use or other power applications. Improper use could be hazardous to personnel and equipment.

Suggested Ampacities:
For 600 Volt In-Line Applications

GA	AMPERES	GA	AMPERES
500 MCM	695	1/0	190
350 MCM	552	1	160
250 MCM	445	2	140
4/0	310	4	100
3/0	265	6	75
2/0	223	—	—

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL O. D. INCHES	NOMINAL WEIGHT LBS/MFT
9350	6	259/30	0.380	140
9351	4	374/30	0.400	180
9353	2	625/30	0.470	265
9354	1	778/30	0.500	320
9355	1/0	990/30	0.565	405
9356	2/0	1248/30	0.620	485
9357	3/0	1586/30	0.675	620
9358	4/0	2054/30	0.750	790
9359	250MCM	2496/30	0.830	965
9361	350MCM	3432/30	0.960	1310
9362	500MCM	5054/30	1.200	1960

NOTE: Welding Cable is also available with extra flexible copper stranding (#34 AWG Strand) on special request.
Other types of insulation may be supplied.

WELDING CABLE AMPACITIES - SINGLE CONDUCTOR

Regular Cable Sizes: For Welding Cable Application

Length in feet for total circuit for secondary voltages only - do not use this table for 600 volt applications							
AMPS	100'	150'	200'	250'	300'	350'	400'
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0	REQUIRED CABLE SIZES SHOWN IN AWG NUMBERS					

The total circuit length includes both welding and ground leads (Based on 4-volt drop) 60% duty cycle.

These values for current-carrying capacity are based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F), and yield load factors of from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable as the ambient temperature will generally be substantially lower than 40°C.

For 600 Volt In-Line: Ampacities for portable cable, continuous duty. (Ambient Temperature of 40°C).
May not be suitable for all installations per National Electrical Code.

MSHA
Mine Safety and Health Administration

SINGLE CONDUCTOR PORTABLE POWER AND MOTOR LEAD CABLE

TYPE W (UL) 90°C - RHH/RHW - 600/2000 VOLT

Construction

Conductor:
- Fully annealed stranded bare copper ASTM B-172.

Insulation:
- EPDM 90°C.

Jacket:
- Thermosetting 90°C, black.
- Temperature range: -40°C to +90°C.
- Voltage rating: 600 Volt. RHH-RHW, 2000 Volt Type W.

Applications:
- Portable lighting systems.
- Entertainment industry activities such as theatre, television, night clubs, motion pictures, mobile communication vans, spotlights and sound systems.
- Other similar applications that would require permanent or temporary lighting. Water and sunlight resistant.

Industry Approvals:
- Designed to withstand severe environmental conditions.
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals.
- Meets or exceeds flame test requirements of MSHA, IEEE, ICEA and UL (consult factory for details).
- ICEA S-68-516 NEMA WC-8.
- ICEA S-19-81 NEMA WC-3.
- MSHA.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NO. OF COND'S	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS(1)	NOMINAL WEIGHT LBS/MFT
90°C SINGLE CONDUCTOR TYPE W, MOTOR LEAD CABLE 600/2000 VOLT							
21005	8	133	1	0.070	0.485	80	160
21006	6	259	1	0.070	0.565	105	220
21007	4	259	1	0.070	0.605	140	290
21008	2	259	1	0.070	0.680	190	395
21009	1	259	1	0.090	0.765	220	490
21010	1/0	259	1	0.090	0.810	260	575
21011	2/0	259	1	0.090	0.885	300	700
21012	3/0	259	1	0.090	0.930	350	820
21013	4/0	259	1	0.090	0.980	405	1000
21014	250	627	1	0.105	1.045	455	1170
21015	300	741	1	0.105	1.090	500	1490
21016	350	885	1	0.105	1.145	570	1520
21017	400	988	1	0.105	1.200	600	1920
21018	500	1235	1	0.105	1.310	700	2090

(1) These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA Pub-S-68-516 NEMA WC-8 (latest edition). For ampacities per National Electric Code requirments, refer to the latest NEC edition.

D

MSHA Mine Safety and Health Administration

UL® LISTED

JUMPER CABLE, NEON SIGN & OIL BURNER IGNITION CABLE

5000/15000 VOLT RED JACKET 90°C UNSHIELDED
TYPE GTO-15

Construction

Description:
- Bare Annealed Copper Conductor.
- Strand Shield.
- EPR Insulation.
- Red Ozone Resistant Jacket. 90°C.

Application:
- Designed as flexible power leads for use with tap-off or jumper clamps which permit temporary connectors or "By-Pass" of energized aerial lines up to and including 15000V (Phase to Phase).

CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS	LBS/MFT
9315	2	259	0.210	0.065	0.918	195	550
9316	1/0	259	0.210	0.065	0.990	259	726
9317	2/0	259	0.210	0.065	1.040	298	855
9319	4/0	259	0.210	0.065	1.180	397	1165
9321	350	855	0.210	0.065	1.309	540	1685
9323	500	1235	0.210	0.065	1.438	675	2185

NOTE: It must be noted that jumper cables should not be used in place of normal high voltage cables. They should be isolated in areas where contact with people is limited.
Because jumper cables cannot be protected against prolonged contact with other conductors or grounds by shielding, these cables must be positioned away from contact with grounds, transformer cases, cross arms, etc., to avoid possible high stress and capacitance leakage.

Construction

Conductor:
- Stranded bare copper.

Insulation/Jacket:
- High dielectric anti--oxidant stabilizer "one pass" insulation. UL Listed.

Applications:
- Indoor and outdoor neon sign use; oil burner ignition wiring.

Rating:
- 15,000 volts.

Temperature:
- Rated -20°C to +105°C.

CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	NOMINAL O.D.	STANDARD LENGTH	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	FEET	LBS/MFT
20060	14	19/.0147	0.086	0.243	250' coil	40

NOTE: GTO-15 also available in other colors and 105°C. Check sales office for special price and availability.

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242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
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TYPE W-MAGNET CRANE CABLE - ROUND - 2 CONDUCTORS

600/2000 VOLT, 90°C

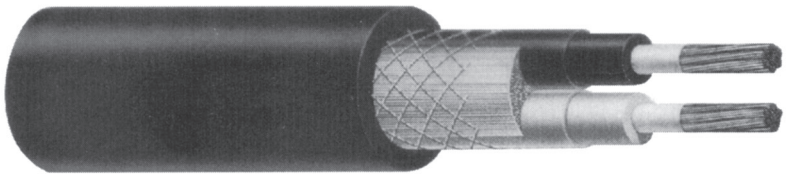
Construction

Description:

- Extra flexible bare annealed copper conductors, 90°C heat resistant .060 EPDM insulation, polyester braid separator over conductors, neoprene or CPE jacket.

Applications:

- Mines, Cranes, Heavy industrial machinery, Portable equipment.
- Scrap, recycling and other lifting magnet, crane application.



INSULATION THICKNESS (INCHES) .060

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL O.D. INCHES	CURRENT AMPS	NOMINAL WEIGHT LBS/MFT
90°C 600/2000 VOLTS					
9310	8	133	0.820	74	430
9311	6	133	0.915	99	581
9312	4	133	1.065	130	813
9313	2	133	1.255	174	1182

Conductor Color Coding: Black - White

D

UNDERGROUND LOW ENERGY LIGHTING CABLE

60°C 150 VOLT UL - LANDSCAPE LIGHTING

Construction

Conductor:

- Annealed bare copper.

Insulation:

- Black PVC - sunlight resistant.
- Temperature range -20°C to +60°C.

Applications:

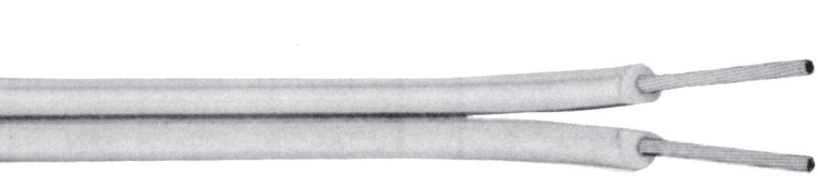
- Landscape and outdoor lighting.
- Outdoor security wiring.

Features:

- UL Listed.
- OSHA acceptable.

Packaging:

- 500 ft., 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS	NOMINAL WEIGHT LBS/MFT
20080	16	2	26/30	0.045	0.150x0.295	13	42
20081	14	2	41/30	0.045	0.170x0.354	18	60
20082	12	2	65/30	0.045	0.190x0.392	25	80
20083	10	2	104/30	0.045	0.222x0.440	30	99
20084	8	2	133/.0113	0.060	0.295x0.590	40	173

MSHA Mine Safety and Health Administration

OSHA Acceptable Occupational Safety and Health Administration

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TYPE W ROUND

PORTABLE POWER CABLE - 2000 VOLT, 90°C (UL)

D

Construction

Conductor:
- Each conductor is fabricated with rope lay concentric copper. The strands are uncoated annealed copper.

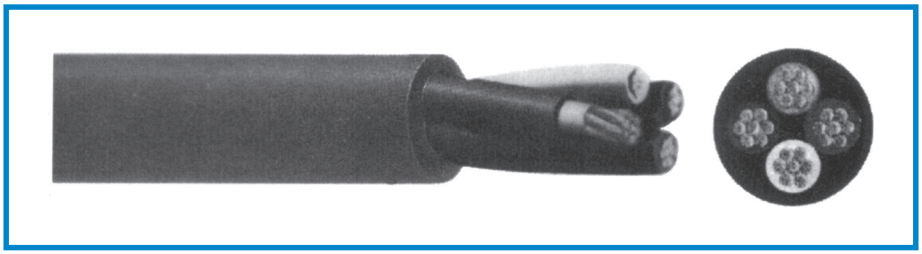
Insulation:
- EPDM with exceptional dielectric and mechanical properties. Rated for 90°C (2,000 volts). Has superior overload (130°C) and short circuit (250°C) protection, high tensile strength and resistance to crushing and impact. Color Coded per ICEA.

Assembly:
- Rubber fillers are cabled in the interstices. The cable assembly is covered with a rubber-filled tape. The outer surface of the tape is vulcanized to the CPE jacket, permitting free stripping of the jacket.

Jacket:
- A heavy-duty jacket of tough, thermosetting chlorinated polyethylene is vulcanized over the cable core assembly. Pennsylvania Bureau of Mines approved, MSHA approved. The jacket is resistant to oil, sunlight, ozone, grease, acids, water, abrasion and impact. -40°C, +90°C.

Features:
- Withstands severe environmental conditions.
- Rated 90°C and 2,000 volts.
- Designed for heavy-duty use.
- Long service life.
- Heavy-duty chlorinated polyethylene jacket.
- EP rubber insulation on conductors and green rubber covering on grounds.
- MSHA approved.

Applications:
- Portable cables, depending on the type (W, G, or G-GC), are recommended for applications such as cranes, conveyors, mobile equipment, temporary power supply use, portable and stationary heavy-duty equipment.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS*	NOMINAL WEIGHT LBS/MFT
TYPE W (3 CONDUCTOR)						
9278	8	133	0.060	0.910	74	530
9279	6	259	0.060	1.010	99	660
9280	4	259	0.060	1.170	130	900
9281	3	259	0.060	1.240	120	1300
9282	2	259	0.080	1.340	174	1325
9283	1	259	0.080	1.510	202	1600
9284	1/0	259	0.080	1.650	234	2280
9285	2/0	259	0.080	1.750	271	2680
9286	3/0	259	0.080	1.890	313	3220
9287	4/0	259	0.095	2.040	361	3900
9288	250	627	0.095	2.390	402	5070
9290	350	855	0.095	2.680	495	6570
9293	500	1235	0.095	3.030	613	8700
TYPE W (4 CONDUCTOR)						
9295	8	133	0.060	0.990	65	620
9296	6	259	0.060	1.100	87	825
9297	4	259	0.060	1.270	114	1175
9299	2	259	0.080	1.480	152	1650
9300	1	259	0.080	1.680	177	2450
9301	1/0	259	0.080	1.790	205	2570
9302	2/0	259	0.080	1.930	237	3450
9303	3/0	259	0.080	2.070	274	4050
9304	4/0	259	0.080	2.260	316	4970
9305	250	627	0.094	2.660	280	5460
9306	350	888	0.094	2.980	335	7140
9307	500	1221	0.094	3.400	395	9480
TYPE W (5 CONDUCTOR)						
9295-5 CDR	8	133	0.060	1.070	52	710
9296-5 CDR	6	259	0.060	1.210	69	1110
9297-5 CDR	4	259	0.060	1.550	91	1400
9299-5 CDR	2	259	0.060	1.610	121	2340
9301-5 CDR	1/0	259	0.080	1.960	164	3460
9302-5 CDR	2/0	259	0.080	2.130	189	4180
9303-5 CDR	3/0	259	0.080	2.260	219	4900
9304-5 CDR	4/0	259	0.080	2.460	252	5980

* Ampacity based on 90°C conductor temperature and 40°C ambient temperature.

NOTE: For ampacities per National Electric Code requirements, refer to the latest NEC edition.

Conductor Color Coding:
3 conductor - Black-White-Green
4 conductor - Black-White-Red-Green
5 conductor - Black-White-Red-Green-Orange

PORTABLE POWER CABLE - 2000 VOLT, 90°C

Construction

Conductor:
- Each conductor is fabricated with rope lay concentric copper. The strands are uncoated annealed copper.

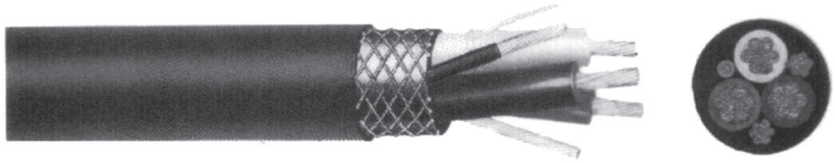
Insulation:
- EPDM with exceptional dielectric and mechanical properties. Rated for 90°C (2,000 volts). Has superior overload (130°C) and short circuit (250°C) protection, high tensile strength and resistance to crushing and impact. Color Coded per ICEA.

Ground Wire:
- Ground wires are composed of flexible uncoated copper strands. The ground conductors are divided into segments of equal cross sectional area. They are covered with green rubber to reduce abrasion against other cable components and to provide long cable life while in heavy-duty service.

Jacket:
- A heavy-duty jacket of tough, thermosetting chlorinated polyethylene is vulcanized over the cable core assembly.
- The jacket is resistant to oil, sunlight, ozone, grease, acids, water, abrasion and impact.
- -40°C to +90°C.

Features:
- Excellent impact and abrasive resistant. Withstands exposure to oil, acids, alkalies, heat, moisture and most chemicals.
- Rated 90°C and 2,000 volts.
- Designed for heavy-duty use.
- Long service life.
- Heavy-duty chlorinated polyethylene jacket.
- EP rubber insulation on conductors and green rubber covering on grounds.
- MSHA approved - ICEA S75-381.
- Water resistant.
- Sunlight resistant.
- Non-wicking rubber fillers (on G-GC).

Applications:
- Portable cables, depending on the type (W, G, or G-GC), are recommended for applications such as cranes, conveyors, mobile equipment, temporary power supply use, portable and stationary heavy-duty equipment.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	GROUND WIRE AWG	GROUND CHECK AWG	NOMINAL O.D. INCHES	CURRENT AMPS*	NOMINAL WEIGHT LBS/MFT
TYPE G OR G-GC (3 CONDUCTOR)								
9250	8	133	0.060	2-#10	10	0.970	59	665
9251	6	259	0.060	2-#10	10	1.050	79	830
9252	4	259	0.060	2-#8	10	1.165	104	1145
9254	2	259	0.060	2-#7	10	1.340	138	1485
9255	1	259	0.080	2-#6	8	1.510	161	2100
9256	1/0	259	0.080	2-#5	8	1.650	186	2550
9257	2/0	259	0.080	2-#4	8	1.750	215	3020
9258	3/0	259	0.080	2-#3	8	1.890	249	3660
9259	4/0	259	0.080	2-#2	8	2.040	287	4410
9260	250	627	0.095	2-#2	8	2.390	320	6060
9262	350	855	0.095	2-#1/0	8	2.680	394	7400
9264	500	1235	0.095	2-#2/0	8	3.030	487	10100
TYPE G (4 CONDUCTOR)								
9266	8	133	0.060	4-#12	-	0.990	54	635
9267	6	259	0.060	4-#12	-	1.100	72	900
9268	4	259	0.060	4-#10	-	1.245	93	1280
9270	2	259	0.060	4-#9	-	1.480	122	2000
9271	1	259	0.080	4-#8	-	1.680	143	2660
9272	1/0	259	0.080	4-#7	-	1.790	165	3140
9273	2/0	259	0.080	4-#6	-	1.930	192	3780
9274	3/0	259	0.080	4-#5	-	2.070	221	4500
9275	4/0	259	0.080	4-#4	-	2.260	255	5520
9276	250	627	0.094	4-#3	-	2.660	280	5920
9277	350	888	0.094	4-#2	-	2.980	335	7885
9294	500	1221	0.094	4-#1/0	-	3.400	395	10660

* Ampacity based on 90°C conductor temperature and 40°C ambient temperature.

Conductor Color Coding:
3 conductor - Black-White-Red
4 conductor - Black-White-Red-Orange

MSHA Mine Safety and Health Administration

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CSA Certified Canadian Standard Association

ICEA

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MINE POWER FEEDER

XLP-PVC - 5000 VOLT, 8000 VOLT AND 15000 VOLT - UL 90°C to -40°C

D

Construction

Conductors:
- Bare, annealed copper per ASTM B-3.
- Concentric stranded per ASTM B-8.

Conductor Shielding:
- Extruded semi-conducting compound.

Insulation:
- 90°C cross-linked polyethylene (XLP).
- ICEA S-75-381.

Insulation Shield:
- Extruded semi-conducting compound.
- Bare copper tape (.003").

Color Code:
- Printed Black, White, Red.

Ground Wires:
- Uninsulated, annealed stranded bare copper.

Ground Check:
- Annealed stranded bare copper, separator, yellow XLP insulation.

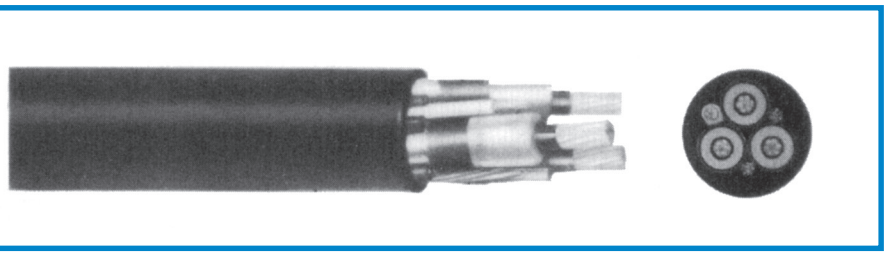
Cabling:
- Three shielded conductors are assembled round with two uninsulated ground wires, one yellow insulated ground check and jute fillers as needed.

Cable Reinforcement:
- An open yarn reinforcement is applied over the assembly for mechanical strength.

Jacket:
- Black flame retardant PVC ICEA S-75-381.

Features:
- Meets ICEA requirements (except uncoated grounds).
- OSHA acceptable.
- MSHA accepted.
- Passes MSHA flame test.
- Excellent heat and moisture resistance.
- Resistant to most oils and chemicals.
- Flame retardant.
- UL listed.

Applications:
- Designed for use in high voltage distribution circuits for permanent (or semi-portable) installations in bore holes, shafts, open pits, strip mines and tunnels.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. THICKNESS (INCHES)		GROUND WIRES (2)	GROUND CHECK	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSUL.	JACKET	AWG/MCM	AWG	INCHES	AMPS*	LBS/MFT
TYPE MP-GC — THREE CONDUCTOR — 5,000 VOLTS - ICEA-UL									
25501	6	7	0.090	0.110	10	10	1.320	93	980
25502	4	7	0.090	0.110	8	8	1.425	122	1265
25503	2	7	0.090	0.110	6	8	1.545	159	1610
25504	1	19	0.090	0.110	5	8	1.676	184	1940
25505	1/0	19	0.090	0.110	4	8	1.750	211	2265
25506	2/0	19	0.090	0.140	3	8	1.870	243	2670
25507	3/0	19	0.090	0.140	2	8	2.040	279	3270
25508	4/0	19	0.090	0.140	1	8	2.110	321	3920
25509	250	37	0.090	0.140	1/0	8	2.275	355	4660
25510	350	37	0.090	0.140	2/0	8	2.500	435	6130
25511	500	37	0.090	0.170	4/0	8	2.820	536	8240
TYPE MP-GC — THREE CONDUCTOR — 8,000 VOLTS - ICEA-UL									
25520	6	7	0.115	0.110	10	10	1.430	93	1090
25521	4	7	0.115	0.110	8	8	1.540	122	1325
25522	2	7	0.115	0.110	6	8	1.670	159	1775
25523	1	19	0.115	0.110	5	8	1.885	184	2065
25524	1/0	19	0.115	0.110	4	8	1.970	211	2085
25525	2/0	19	0.115	0.140	3	8	2.000	243	2950
25526	3/0	19	0.115	0.140	2	8	2.175	279	3605
25527	4/0	19	0.115	0.140	1	8	2.225	321	4245
25528	250	37	0.115	0.140	1/0	8	2.415	355	4980
25529	350	37	0.115	0.140	2/0	8	2.640	435	6280
25530	500	37	0.115	0.170	4/0	8	3.035	536	8470
TYPE MP-GC — THREE CONDUCTOR — 15,000 VOLTS - ICEA-UL									
25531	2	7	0.175	0.110	6	8	1.990	164	2235
25532	1	19	0.175	0.110	5	8	2.065	187	2665
25533	1/0	19	0.175	0.110	4	8	2.150	215	3020
25534	2/0	19	0.175	0.140	3	8	2.245	246	3520
25535	3/0	19	0.175	0.140	2	8	2.355	283	4130
25536	4/0	19	0.175	0.140	1	8	2.470	325	4895
25537	250	37	0.175	0.140	1/0	8	2.600	359	5400
25538	350	37	0.175	0.140	2/0	8	2.910	438	6730
25539	500	37	0.175	0.170	4/0	8	3.190	502	8515

[1] Ampacities (Amps per conductor) are based on 40°C ambient temperature in air, 90°C conductor temperature.

NOTE: Also available in EPR/Neoprene or EPR/CPE. Check factory for pricing and availability.

TYPE SHD-GC - 2000 VOLT, 5000 VOLT, 8000 VOLT AND 15000 VOLT

Construction

Conductors:
- Bare, annealed copper per ASTM B-3. Flexible, rope-lay stranded per ICEA S-75-381.

Conductor Shield (5, 8, & 151kV only)
- Nylon semi-conducting tape.

Insulation:
- 90°C oil, ozone and water-resistant synthetic rubber (EPDM) ICEA S-75-381.

Semi-Conducting Tape Shield (5, 8 & 15kV only)
- Color coded tape.

Color Code:
- Black, White, Red.

Insulation Shield
- Tinned copper braid (85% min. coverage) over each conductor.

Ground Wires
- Uninsulated, rope-lay stranded, tinned copper.

Ground Check
- Annealed tinned copper, rope-lay stranded, tape separator, yellow EPDM insulation.

Cabling
- Three shielded conductors are assembled round on a planetary cabler with two uninsulated ground wires, one yellow insulated ground check, solid elastomer fillers as needed, and an overall tape separator.

Cable Reinforcement
- An open reinforcement is applied over the assembly for mechanical strength.

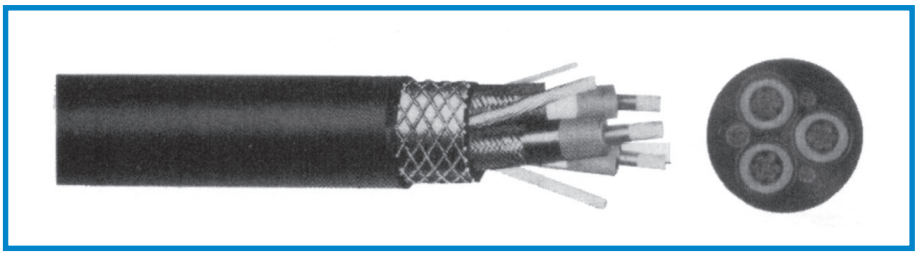
Jacket
- Extra heavy duty, oil-resistant black Thermoset, CPE Jacket ICEA S-75-381. Alternate jacket colors are available for manufacture. Consult factory for specifications.
- This jacketing is tough, durable and highly flexible. It has superior resistance to crushing, abrasion, compression, impact, chemicals, water, aging, weathering and harmful ozone. Colors other than black are available on special order.

INDUSTRY APPROVALS
- Meets ICEA requirements as applicable
- OSHA acceptable
- MSHA listed
- Excellent resistance to oil, solvents, ozone, aging and abrasion
- Excellent flexibility
- Passes MSHA flame test (P-136-MSHA)
- Water resistant 2 - 15kV

Standards:
- Designed and constructed in accordance with ICEA-NEMA standards. (ICEA Publication No. S-68-516 and NEMA Publication No. WC8).

APPLICATIONS

Designed for use as heavy-duty trailing cable on mining equipment where maximum safety is required. Also suitable for high voltage distribution in underground mines where portable power is necessary.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. THICKNESS (INCHES) INSUL.	NOM. THICKNESS (INCHES) JACKET	GROUND WIRES (2) AWG/MCM	GROUND WIRE STRAND	GROUND CHECK AWG	NOMINAL O.D. INCHES	CURRENT AMPS*	NOMINAL WEIGHT LBS/MFT
TYPE SHD-GC - THREE CONDUCTOR - 2,000 VOLT										
25540	6	133	0.070	0.155	10	49	10	1.290	93	1100
25541	4	133	0.070	0.155	8	49	10	1.400	122	1390
25542	2	133	0.070	0.170	6	133	8	1.550	159	1870
25543	1	133	0.080	0.190	5	133	8	1.760	184	2370
25544	1/0	259	0.080	0.190	4	133	8	1.820	211	2750
25545	2/0	259	0.080	0.205	3	133	8	1.960	243	3420
25546	3/0	259	0.080	0.205	2	133	8	2.130	279	3840
25547	4/0	259	0.080	0.220	1	133	8	2.270	321	4725
25548	250	427	0.095	0.220	1/0	259	8	2.450	355	5520
TYPE SHD-GC - THREE CONDUCTOR - 5,000 VOLT										
25552	6	133	0.110	0.185	10	49	8	1.540	93	1500
25553	4	133	0.110	0.185	8	49	8	1.650	122	1880
25554	2	133	0.110	0.205	6	133	8	1.840	159	2405
25555	1	133	0.110	0.205	5	133	8	1.930	184	2805
25556	1/0	259	0.110	0.220	4	133	8	2.060	211	3235
25557	2/0	259	0.110	0.220	3	133	8	2.160	243	3700
25558	3/0	259	0.110	0.235	2	133	8	2.320	279	4525
25559	4/0	259	0.110	0.235	1	133	8	2.460	321	4725
25560	250	427	0.120	0.250	1/0	259	8	2.650	355	5945
25561	350	427	0.120	0.265	2/0	259	8	2.950	435	7650
25562	500	427	0.120	0.280	4/0	259	8	3.310	536	10440
TYPE SHD-GC - THREE CONDUCTOR - 8,000 VOLT										
25570	4	133	0.150	0.205	8	49	8	1.900	122	2385
25571	2	133	0.150	0.220	6	133	8	2.070	159	2955
25572	1	133	0.150	0.220	5	133	8	2.210	184	3270
25573	1/0	259	0.150	0.220	4	133	8	2.260	211	3940
25574	2/0	259	0.150	0.235	3	133	8	2.390	243	4360
25575	3/0	259	0.150	0.250	2	133	8	2.550	279	5005
25576	4/0	259	0.150	0.250	1	133	8	2.670	321	5640
25577	250	427	0.150	0.250	1/0	259	8	2.800	355	6470
25578	350	427	0.150	0.280	2/0	259	8	3.200	435	8280
25579	500	427	0.150	0.295	4/0	259	8	3.560	536	10700
TYPE SHD-GC - THREE CONDUCTOR - 15,000 VOLT										
25582	2	133	0.210	0.235	6	133	8	2.350	164	3550
25583	1	133	0.210	0.235	5	133	8	2.460	187	3800
25584	1/0	133	0.210	0.250	4	133	8	2.570	215	4580
25585	2/0	259	0.210	0.250	3	133	8	2.660	246	4960
25586	3/0	259	0.210	0.265	2	133	8	2.900	283	5740
25587	4/0	259	0.210	0.265	1	259	8	2.950	325	6490

* Based on three conductor cable in air at 40°C ambient, 90°C conductor temperature, per ICEA methods.

NOTE: Also available with neoprene jacket.

MSHA Mine Safety and Health Administration

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

Custom Cable Corp.

2.4kV – Nonshielded – EPR/PVC
MEDIUM VOLTAGE POWER CABLE Nonshielded - 2.4kV – EPR Insulation PVC Jacket MV-90

CONSTRUCTION	
Conductor:	- Compressed class B stranded tinned copper
Conductor Shield:	- Nylon semi-conducting tape
Insulation:	- 90°C rated Ethylene Propylene Rubber (EPR)
Jacket:	- Extruded sunlight resistant PVC jacket

Applications:

- UL listed
- OSHA acceptable
- Suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions
- May be installed in conduit, duct or aerially when properly supported by a messenger

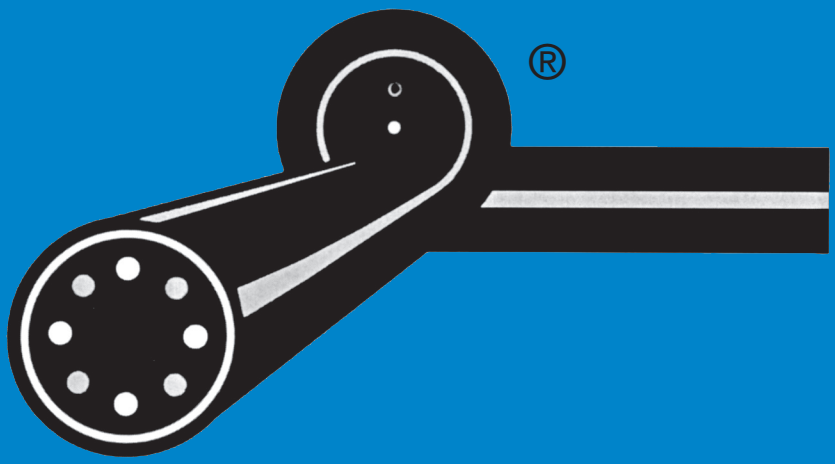
Standards:

- ICEA S-96-659
- UL-1072
- 2,400 Volts
- Article 328 and 310
- MV-90

Part #	AWG Size	# Strands	Nom. Cond. Diameter	Min. Avg. Insul. Wall	Nom. O.D.	Lbs/M	Amps
25001	6	7	.181”	.125”	.605”	231	75
25002	4	7	.228”	.125”	.650”	296	97
25003	2	7	.287”	.125”	.710”	396	130
25004	1	19	.327”	.125”	.750”	465	155
25005	1/0	19	.367”	.125”	.790”	548	180
25006	2/0	19	.412”	.125”	.835”	646	205
25008	4/0	19	.520”	.125”	.975”	959	280
25009	250	37	.566”	.140”	1.08”	1153	315
25011	350	37	.670”	.140”	1.18”	1512	385
25013	500	37	.800”	.140”	1.32”	2103	475
25015	750	61	.983”	.155”	1.55”	2971	600

MEDIUM VOLTAGE POWER CABLE

INCLUDING AIRPORT LIGHTING AND SELF-SUPPORTING AERIAL CABLE



E

MEDIUM VOLTAGE POWER CABLE

TYPE MV-90 - UNSHIELDED XLP POWER CABLE, 5000 VOLT

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

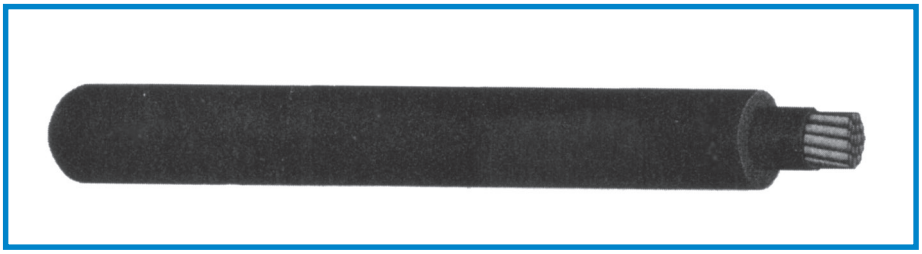
Conductor Shield:
- Nylon semi-conducting tape.

Insulation:
- 90°C rated black crosslink polyethylene (XLP) per ICEA S-96-659 part 3.

Tests:
- The finished cable shall be tested in accordance with the requirements of ICEA S-96-659 and UL-1072.

Application:
- UL listed and OSHA acceptable.
- Where NEC requirements apply, cables are suitable for use in dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit or duct.

Industry Approvals:
- Listed by UL as 5,000 volt non-shielded cable, Type MV-90 Dry, per UL Standard 1072.
- 90°C for Dry Locations.
- Conforms to ICEA Pub. No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked-thermosetting-polyethylene-insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF STRANDs	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS[2]	APPROX. NET WEIGHT LBS/MFT
5000 VOLTS, UNSHIELDED, DRY LOCATIONS ONLY - 90°C						
13400	8	7[(1)]	0.110	.390	90	55
13401	6	7	0.110	.425	75	132
13402	4	7	0.110	.470	97	188
13403	2	7	0.110	.530	130	274
13404	1	19	0.110	.590	155	325
13405	1/0	19	0.110	.610	180	416
13406	2/0	19	0.110	.655	205	510
13407	3/0	19	0.110	.700	241	600
13408	4/0	19	0.110	.765	280	760
13409	250	37	0.120	.830	315	910
13410	350	37	0.120	.935	385	1240
13411	500	37	0.120	1.065	475	1730
13412	750	1	0.130	1.265	600	2534
13413	1000	61	0.130	1.410	3320	690

1 2001 to 5000 volts at 100% insulation level and 2001 to 3000 volts at 133% insulation level (ICEA S-96-659, table 4-2).

2 Ampacities are based on three single conductor cables in isolated conduit in air. Conductor temperature of 90°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

E

TYPE MV-90 - SHIELDED XLP POWER CABLE, 5000 VOLT - WET AND DRY LOCATIONS

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 90°C rated Cross-linked Polyethylene (XLPE) per ICEA S-93-639 section 4 and UL-1072.

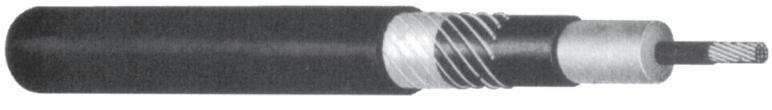
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied copper wires.

Jacket:
- Extruded PVC jacket with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant."

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-5.

Industry Approvals:
- Listed by UL as 5000-volt power cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked-thermosetting-polyethylene-Insulated Wire and Cable.
- Sizes 8-4 AWG with copper conductor approved under FAA AC 150/5345-7D, Specification L-824 Airport Lighting Cable, Type C.
- Conforms to Federal specification J-C-30B.



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D.	AMPS			APPROX. NET WEIGHT
	AWG/MCM	STRAND	INSULATION	JACKET	INCHES	DIRECT BURIAL[1]	DUCT[2]	AIR[3]	LBS/MFT
5000 VOLTS, SHIELDED, 100% AND 133% INSULATION LEVELS (GROUNDED and UNGROUNDED NEUTRAL)									
13420	8	7	0.090	0.060	.640	110	64	55	195
13421	6	7	0.090	0.060	.675	140	85	75	244
13422	4	7	0.090	0.060	.725	180	110	97	309
13423	2	7	0.090	0.060	.780	230	145	130	409
13424	1	19	0.090	0.060	.820	260	170	150	475
13425	1/0	19	0.090	0.080	.900	295	195	180	559
13426	2/0	19	0.090	0.080	.945	335	220	205	661
13427	3/0	19	0.090	0.080	1.000	385	250	240	822
13428	4/0	19	0.090	0.080	1.055	435	290	280	983
13429	250	37	0.090	0.080	1.120	470	320	315	1127
13430	350	37	0.090	0.080	1.225	570	385	385	1482
13431	500	37	0.090	0.080	1.375	690	470	475	2069
13432	750	61	0.090	0.080	1.575	845	585	600	2940
13433	1000	61	0.090	0.110	1.785	980	670	690	3789

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 40°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

NOTES: a. Upon request, sizes 250 MCM and larger can be manufactured and listed for installation in cable tray.

b. Copper metallic tape shield available on special request.

c. CPE, Neoprene or Hypalon® jacket may also be supplied on special order.

Applications
UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250A(A)(5) and 250.4(B)(4) of the 2002 NEC.

UL® LISTED

MEDIUM VOLTAGE POWER CABLE

TYPE MV-90 - SHIELDED XLP POWER CABLE, 100% INSULATION LEVEL, 15000 VOLT

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 90°C rated Cross-linked Polyethylene (XLPE) per ICEA S-93-639 section 4 and UL-1072.

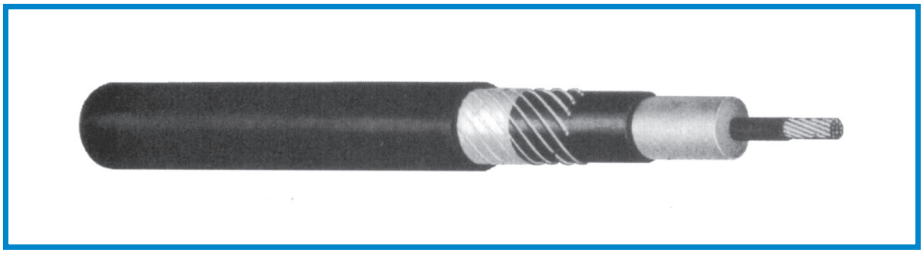
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied copper wires.

Jacket:
- Extruded PVC jacket with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant."

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-5.

Industry Approvals:
- Listed by UL as 15,000-volt power cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked-thermosetting-polyethylene-Insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	AMPS			NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	DIRECT BURIAL[1]	DUCT[2]	AIR[3]	LBS/MFT
8001-15000 VOLTS, SHIELDED, 100% INSULATION LEVEL (GROUNDED NEUTRAL)									
13440	2	7	.080	0.990	545	210	155	150	495
13441	1	19	.080	1.025	616	240	175	170	565
13442	1/0	19	.080	1.065	705	275	200	195	650
13443	2/0	19	.080	1.110	815	310	230	225	755
13444	3/0	19	.080	1.160	950	355	260	260	880
13445	4/0	19	.080	1.215	1119	405	295	295	1045
13446	250	37	.080	1.275	1305	440	325	330	1200
13447	350	37	.080	1.390	1699	535	390	395	1550
13448	500	37	.080	1.520	2241	650	465	480	2070
13449	750	61	.080	1.710	3135	805	565	585	2945
13450	1000	61	.080	1.930	4166	930	640	675	3890

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 90°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

NOTES: a. Upon request, sizes 250 MCM and larger can be manufactured and listed for installation in cable tray.

b. Copper metallic tape shield available on special request.

c. CPE, Neoprene or Hypalon® jacket may also be supplied on special order.

Applications
UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250A(A)(5) and 250.4(B)(4) of the 2002 NEC.

TYPE MV-90 - SHIELDED XLP POWER CABLE, 133% INSULATION LEVEL, 15000 VOLT

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 90°C rated Cross-linked Polyethylene (XLPE) per ICEA S-93-639 section 4 and UL-1072.

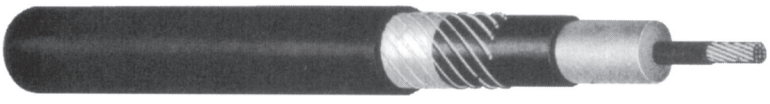
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied copper wires.

Jacket:
- Extruded PVC jacket with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant."

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-5.

Industry Approvals:
- Listed by UL as 5000-volt power cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked-thermosetting-polyethylene-Insulated Wire and Cable.
- Sizes 8-4 AWG with copper conductor approved under FAA AC 150/5345-7D, Specification L-824 Airport Lighting Cable, Type C.
- Conforms to Federal specification J-C-30B.



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D.	AMPS			APPROX. NET WEIGHT
	AWG/MCM	STRAND	INSULATION	JACKET	INCHES	DIRECT BURIAL[1]	DUCT[2]	AIR[3]	LBS/MFT
8001-15000 VOLTS, SHIELDED, 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)									
13459	2	7	0.220	0.080	1.090	210	155	150	609
13460	1	19	0.220	0.080	1.120	240	175	170	682
13461	1/0	19	0.220	0.080	1.160	275	200	195	774
13462	2/0	19	0.220	0.080	1.205	310	230	225	886
13463	3/0	19	0.220	0.080	1.255	355	260	260	1062
13464	4/0	19	0.220	0.080	1.325	405	295	295	1255
13465	250	37	0.220	0.080	1.390	440	325	330	1411
13466	350	37	0.220	0.080	1.495	535	390	395	1791
13467	500	37	0.220	0.080	1.625	650	465	480	2339
13468	750	61	0.220	0.110	1.885	805	565	585	3341
13469	1000	61	0.220	0.110	2.045	930	640	675	4291

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 90°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

NOTES: a. Upon request, sizes 250 MCM and larger can be manufactured and listed for installation in cable tray.

b. Copper metallic tape shield available on special request.

c. CPE, Neoprene or Hypalon® jacket may also be supplied on special order.

Applications
UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250A(A)(5) and 250.4(B)(4) of the 2002 NEC.

UL® LISTED

MEDIUM VOLTAGE POWER CABLE

TYPE MV-105 - SHIELDED EPR POWER CABLE, 100% AND 133% INSULATION LEVEL, 35000 VOLT, CT USE

Construction

Conductor:
- Uncoated annealed Class B, concentric compressed round copper strand per ASTM 8.

Conductor Shield:
- Extruded semiconducting thermosetting compound bonded to the insulation.

Insulation:
- EPR (Ethylene Propylene Rubber).

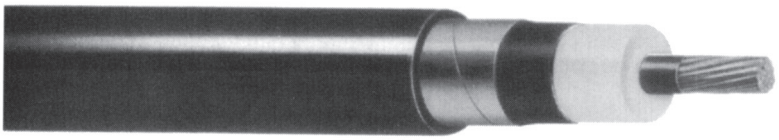
Insulation Shield:
- Thermosetting extruded semiconducting compound applied tightly over the insulation.

Metallic Shield:
- Uncoated annealed 0.005" copper tape shield, helically applied, 12.5% overlap.

Jacket:
- Black PVC sunlight resistant per ICEA.

Application:
- Cable is suitable for use in dry or wet locations at conductor temperatures not exceeding 105°C normal use, 140°C emergency overload, 250°C short circuit. All sizes may be installed in conduit, duct, or directly buried, as permitted by the National Electrical Code.

Standards:
- Conductor Operating Temperatures +90°C continuous, +130°C emergency operation, +250°C short circuit rating. Meets ICEA S-68-516/NEMA WC8. Meets AEIC No. 6 UL 1072 (latest revision), AEIC C58, UL 1072.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
35KV 100% EPR INSULATION .005 COPPER TAPE SHIELD PVC JACKET (25KV 133%)						
25310	1/0	19	.345	0.80	1.34	1071
25311	2/0	19	.345	0.80	1.39	1189
25312	3/0	19	.345	0.80	1.44	1340
25313	4/0	19	.345	0.80	1.49	1523
25314	250	37	.345	0.80	1.54	1688
25315	350	37	.345	0.80	1.64	2089
25316	500	37	.345	0.110	1.83	2761
25317	750	61	.345	0.110	2.03	3706
25318	1000	61	.345	0.110	2.19	4607
35KV 133% EPR INSULATION .005 COPPER TAPE SHIELD PVC JACKET						
25320	1/0	19	.420	0.80	1.537	1299
25321	2/0	19	.420	0.80	1.581	1429
25322	3/0	19	.420	0.80	1.631	1597
25323	4/0	19	.420	0.110	1.722	1878
25324	250	37	.420	0.110	1.769	2080
25325	350	37	.420	0.110	1.903	2525
25326	500	37	.420	0.110	2.049	3130
25327	750	61	.420	0.110	2.238	3966
25328	1000	61	.420	0.110	2.387	5048

NOTE: Size 1/0 and larger UL Listed for CT use.
May also be supplied with a CPE jacket.

Custom Cable Corp.

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PRIMARY UNDERGROUND DISTRIBUTION CABLE TYPE (URD) - ALUMINUM

15000 VOLT 100% INSULATION LEVEL (GROUNDED NEUTRAL) OR 15000 VOLT 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)

Construction

Description:

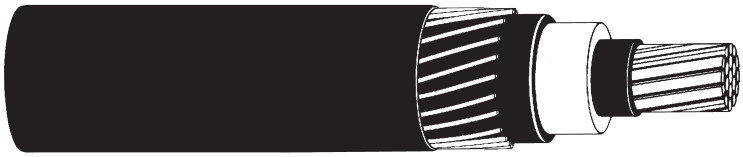
- Annealed aluminum conductor, extruded conductor shield layer, XLP or EPR insulation, Poly shield conducting layer, solid copper wires uniformly spaced around the cable as a concentric neutral conductor.

Application:

- For use on Single Phase Underground Distribution Systems with solidly grounded neutral, suitable for direct burial or installation in ducts.

Note:

- Check factory for 25KV, 35KV and other constructions.



CUSTOM CATALOG NUMBER	CONDUCTOR		COPPER NEUTRAL		NOM. INSUL THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM	STRAND	NO. OF WIRES	SIZE (AWG)	INCHES	INCHES	LBS/MFT
ALUMINUM TYPE URD 15KV 0.220" XLP or TR-XLP INSULATION 0.050 JACKET OVERALL (FULL NEUTRAL)							
13590	2	7	10	14	0.220	1.093	549
13592	1/0	19	16	14	0.220	1.168	697
13593	2/0	19	13	12	0.220	1.247	830
13594	3/0	19	16	12	0.220	1.297	945
13595	4/0	19	20	12	0.220	1.352	1148
ALUMINUM TYPE URD 15KV 0.175" TR-XLP INSUALTION JACKET OVERALL (1/3 NEUTRAL)							
13560	250	37	13	14	0.175	1.288	889
13561	350	37	11	12	0.175	1.462	1175
13562	500	37	16	12	0.175	1.562	1498
13563	750	61	15	10	0.175	1.884	2057
13564	1000	61	20	10	0.175	2.069	2516
ALUMINUM TYPE URD 0.220" TR-XLP INSULATION JACKET OVERALL (1/3 NEUTRAL)							
13570	250	37	13	14	0.220	1.418	1013
13571	350	37	11	12	0.220	1.612	1266
13572	500	37	16	12	0.220	1.742	1597
13573	750	61	15	10	0.220	1.974	2230
13574	1000	61	20	10	0.220	2.159	2718

NOTE: Customer must specify insulation and if jacket is required. Insulation shall be crosslinked, polyethylene, TR-XLP or EPR. Please specify particulars when ordering or we reserve the right to ship any of the above at our option.

E

PRIMARY UNDERGROUND DISTRIBUTION CABLE TYPE (URD) - COPPER

15000 VOLT 100% INSULATION LEVEL (GROUNDED NEUTRAL) OR 15000 VOLT 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)

Construction

Description:

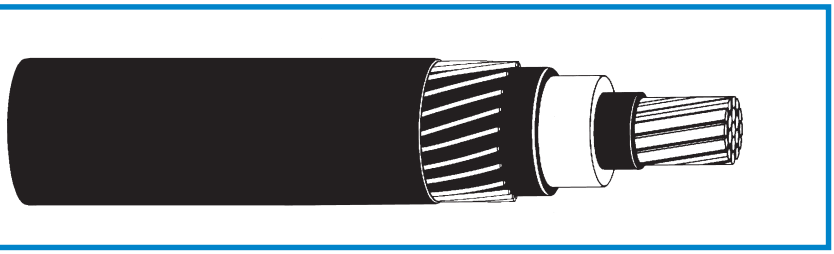
- Annealed copper conductor, extruded conductor shield layer, XLP or EPR insulation, Poly shield conducting layer, solid copper wires uniformly spaced around the cable as a concentric neutral conductor.

Application:

- For use on Single Phase Underground Distribution Systems with solidly grounded neutral, suitable for direct burial or installation in ducts.

Note:

- Check factory for 25KV, 35KV and other constructions.



CUSTOM CATALOG NUMBER	CONDUCTOR		COPPER NEUTRAL		NOM. INSUL THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM	STRAND	NO. OF WIRES	SIZE (AWG)	INCHES	INCHES	LBS/MFT
COPPER TYPE URD 15KV 0.220" XLP or TR-XLP INSULATION 0.050 JACKET OVERALL (FULL NEUTRAL)							
13550	2	7	16	14	0.220	1.093	760
13552	1/0	19	16	12	0.220	1.202	1060
13553	2/0	19	20	12	0.220	1.247	1246
13554	3/0	19	25	12	0.220	1.293	1475
13555	4/0	19	32	12	0.220	1.394	1825
COPPER TYPE URD 15KV 0.220" EPR INSULATION 0.050 JACKET OVERALL (REDUCED NEUTRAL)							
13557	350	37	12	10	0.220	1.654	2234
13558	500	37	17	10	0.220	1.784	3022
13559	750	61	25	10	0.220	1.974	4253

NOTE: Customer must specify insulation and if jacket is required. Insulation shall be crosslinked polyethylene, TR-XLP or EPR. Please specify particulars when ordering or we reserve the right to ship any of the above at our option.

E

TYPE MV90 - UNSHIELDED EPR PVC POWER CABLE, 5000 VOLT - 90°C WET & DRY LOCATIONS

Construction

Conductor:
- Compressed class B stranded annealed coated copper.

Conductor Shield:
- Nylon semi-conducting tape.

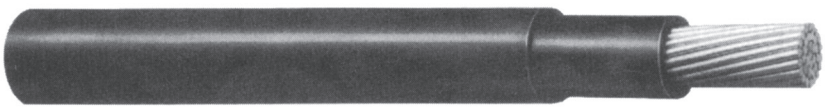
Insulation:
- 90°C rated Ethylene Propylene Rubber (EPR) per ICEA S-96-659 part 3.

Jacket:
- Extruded sunlight resistant PVC jacket with excellent mechanical properties per ICEA S-96-659, part 5.

Tests:
- The finished cable shall be tested in accordance with the requirements of ICEA S-96-659 and UL-1072.

Application:
- UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger.

Industry Approvals:
- Listed by UL as 5,000 volt non-shielded cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene-propylene-rubber-insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	AMPS[2]	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES		LBS/MFT
5000 VOLTS (1), UNSHIELDED - INSULATION LEVEL							
25001	6	7	0.125	0.080	.605	75	231
25002	4	7	0.125	0.080	.650	97	296
25003	2	7	0.125	0.080	.710	130	396
25004	1	19	0.125	0.080	.750	155	465
25005	1/0	19	0.125	0.080	.790	180	548
25006	2/0	19	0.125	0.080	.835	205	646
25008	4/0	19	0.125	0.080	.975	280	959
25009	250	37	0.140	0.110	1.080	315	1153
25011	350	37	0.140	0.110	1.185	385	1512
25013	500	37	0.140	0.110	1.315	475	2103
25015	750	61	0.155	0.125	1.555	600	2971
25016	1000	61	0.155	0.125	1.710	690	3790

1 2001 to 5000 volts at 100% insulation level and 2001 to 3000 volts at 133% insulation level (ICEA S-96-659, table 4-3).

2 Ampacities are based on three single conductor cables in isolated conduit in air. Conductor temperature of 90°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

E

UL® LISTED

MEDIUM VOLTAGE POWER CABLE

TYPE MV90 - WET OR DRY UNSHIELDED 5000 VOLT EPR - HYPALON®

Construction

Conductor:

- Class B stranded annealed uncoated copper. Conductors shall be covered with a layer of extruded conducting thermosetting compound.

Insulation:

- EPR (ethylene propylene rubber) in accordance to paragraph 3.6 of ICEA.

Jacket:

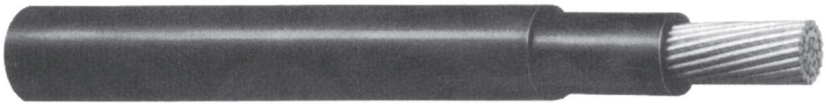
- A Hypalon® jacket shall be applied directly over the insulation-surface printed.

Application:

- Where NEC jurisdiction applies; as 5,000-volt nonshielded power cable, Type MV-90, for use at conductor temperatures not exceeding 90°C in wet or dry locations. Cables meet requirements of Article 310.6 of the National Electrical Code.
- For other applications, as nonshielded power cables for use at 5000 volts 100% insulation level (grounded neutral) and 133% insulation level (ungrounded neutral) under the following conditions:
  - (a) Single conductors mounted on insulators in free air in indoor or outdoor locations. Circuit voltages are 2400 volts, 4160 volts and 4800 volts.
  - (b) Random lay singles in metal conduit and nonmetallic conduit in dry locations at circuit voltage of 2400 volts, 4160 volts and 4800 volts, and in damp or wet locations at circuit voltages of 2400 volts and 4160 volts.
  - (c) Triplexed singles in metal conduit and nonmetallic conduit in damp or wet location at circuit voltages of 4800 volts.
  - (d) Single conductors or triplexed singles in cable tray, spaced block supports or in messenger supported rings in dry, damp or wet locations at circuit voltages of 2400 volts and 4160 volts.
  - (e) Triplexed singles in cable tray, spaced block supports or in messenger supported rings in damp or wet locations at circuit voltage of 4800 volts.
  - (f) Single conductors or triplexed singles, aerially, field-spun to grounded messenger in dry, damp or wet locations at circuit voltages of 2400 volts, 4160 volts and 4800 volts.

Industry Approvals:

- Listed by UL as 5,000 volt nonshielded cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene-propylene-rubber-insulated Wire and Cable.
- Sizes 1/0 AWG and larger pass UL and IEEE Standard 383 ribbon burner flame test and are UL listed For CT Use.



CUSTOM CATALOG NUMBER	SIZE	STRAND			NOMINAL O.D.	CURRENT (AMPS)		NOMINAL WEIGHT
	AWG/MCM		EPR INSULATION	HYPALON® JACKET	INCHES	CONDUIT	DUCT	LBS/MFT
25030	6	7	0.125	0.080	0.650	75	85	260
25031	4	7	0.125	0.080	0.700	97	110	330
25032	2	7	0.125	0.080	0.760	130	145	435
25033	1	19	0.125	0.080	0.800	155	170	505
25034	1/0	19	0.125	0.080	0.840	180	195	590
25035	2/0	19	0.125	0.080	0.880	205	220	700
25036	3/0	19	0.125	0.095	0.960	240	250	860
25037	4/0	19	0.125	0.095	1.020	280	290	1020
25038	250	37	0.140	0.110	1.140	315	320	1210
25039	350	37	0.140	0.110	1.240	385	385	1525
25040	500	37	0.140	0.110	1.370	475	470	2130
25041	750	61	0.155	0.125	1.620	600	585	3090
25042	1000	61	0.155	0.125	1.760	690	670	3960

E

MEDIUM VOLTAGE POWER CABLE

TYPE MV90 - WET OR DRY UNSHIELDED EPR/XL-CPE 2400 VOLT

Construction

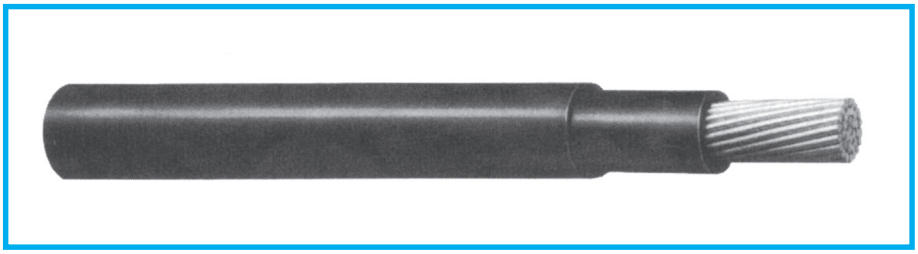
Conductor:
- Class B stranded annealed uncoated copper. Conductors shall be covered with a thermostat semi conduction, stress control layer over conductor.

Insulation:
- EPR (ethylene propylene rubber)

Jacket:
- Lead free cross-linked chorinated polyethyline (XL-CPE)

Application:
- Where NEC jurisdiction applies; as 2,400-volt nonshielded power cable, Type MV-90, for use at conductor temperatures not exceeding 90°C in wet or dry locations. Cables meet requirements of Article 310.6 of the National Electrical Code.
- For use in aerial, conduit, open tray and underground duct installations.
- Excellent heat and moisture resistance.
- Low moisture absorption.
- High dielectric strength.
- Low dielectric loss.
- Chemical and sunlight resistant.
- Meets cold bend test at -35°C.

Industry Approvals:
- Listed by UL as 2,400 volt nonshielded cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA S-96-659/NEMA WC71.
- Sizes 1/0 AWG and larger pass UL and IEEE Standard 383 ribbon burner flame test and are UL listed For CT Use.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		EPR INSULATION	JACKET	INCHES	LBS/MFT
25030	6	7	0.125	0.080	0.62	241
25031	4	7	0.125	0.080	0.66	308
25032	2	7	0.125	0.080	0.72	408
25033	1	19	0.125	0.080	0.76	476
25034	1/0	19	0.125	0.080	0.79	562
25035	2/0	19	0.125	0.080	0.84	666
25036	3/0	19	0.125	0.095	0.92	823
25037	4/0	19	0.125	0.095	0.97	983
25038	250	37	0.140	0.110	1.08	1183
25039	350	37	0.140	0.110	1.17	1545
25040	500	37	0.140	0.110	1.30	2077
25041	750	61	0.155	0.125	1.54	3040
25042	1000	61	0.155	0.125	1.70	3913

E

TYPE MV-105 - SHIELDED EPR-PVC POWER CABLE, 5000/8000 VOLT 105°C WET OR DRY LOCATIONS

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 105°C rated Ethylene Propylene Rubber (EPR) per ICEA S-93-639 section 4 and UL-1072.

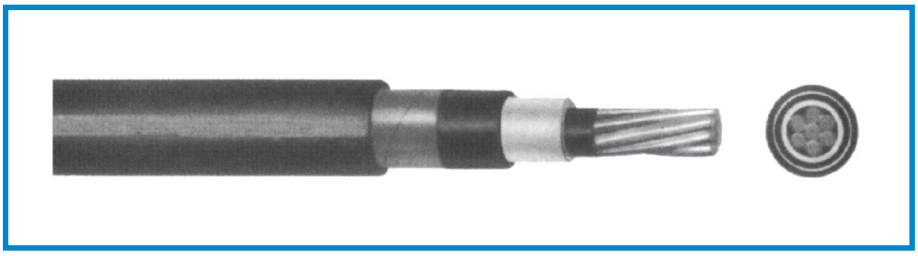
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied 5 mil bare copper tape with a nominal overlap of 25%.

Jacket:
- Extruded PVC jacket with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant."

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS6.

Industry Approvals:
- Conforms to ICEA S-93-639, NEMA WC74 for 5-46 kV Shielded Power Cable.
- Conforms to ICEA S-97-682 for Utility Shielded Power Cables Rated 5 through 46 kV.
- Conforms to AEIC CS8 for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 kV.
- Listed by UL as Type MV-105, per Standard 1072.
- Listed by UL as Sunlight Resistant.
- **Listed by UL CT use. (1/0 and larger.)**



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	AMPS DIRECT BURIAL[1]	AMPS DUCT[2]	AMPS AIR[3]	NOMINAL WEIGHT LBS/MFT
5000 VOLTS, 133% INSULATION LEVEL (UNGROUNDED NEUTRAL) OR 8000 VOLTS, 100% INSULATION LEVEL (GROUNDED NEUTRAL)									
25051	6	7	0.115	0.060	0.695	—	75	85	281
25052	4	7	0.115	0.060	0.745	—	97	110	352
25053	2	7	0.115	0.080	0.805	—	130	145	452
25054	1	19	0.115	0.080	0.845	—	155	170	576
25055	1/0	19	0.115	0.060	0.925	260	180	195	612
25056	2/0	19	0.115	0.080	0.970	300	205	220	719
25057	3/0	19	0.115	0.080	1.020	345	240	250	886
25058	4/0	19	0.115	0.080	1.075	400	280	290	1051
25059	250	37	0.115	0.080	1.130	445	315	320	1199
25060	350	37	0.115	0.080	1.235	550	385	385	1602
25061	500	37	0.115	0.080	1.385	695	475	470	2160
25062	750	61	0.115	0.080	1.580	900	600	585	3048
25063	1000	61	0.115	0.080	1.800	1075	690	670	3908

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 105°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 105°C for normal operation; 140°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250.4(A)(5) and 250.4(13)(4) of the 2002 NEC.
NOTE: Sizes 1 /0 AWG and larger are marked "Type MV-105 for CT USE" suitable for installation in cable tray per Article 392.12 of the 2002 NEC. Sizes 1/0 and larger also pass the IEEE 1202/FT4 flame test.

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MEDIUM VOLTAGE POWER CABLE

TYPE MV105 - SHIELDED EPR POWER CABLE, 100% INSULATION LEVEL, 15000 VOLT

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 105°C rated Ethylene Propylene Rubber (EPR) per ICEA S-93-639 section 4 and UL-1072.

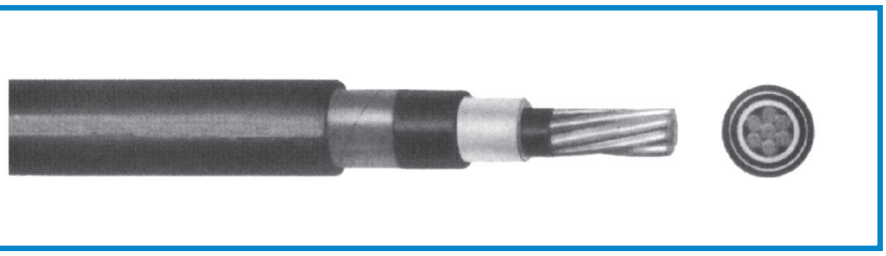
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied 5 mil bare copper tape with a nominal overlap of 25%.

Jacket:
- Extruded PVC jacket with excellent mechanical properties.
- Jacket is UL recognized as being "sunlight resistant."

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-6.

Industry Approvals:
- Conforms to AEIC CS6 for Ethylene Propylene Rubber Insulated Shielded Power Cables.
- Conforms to ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene-propylene-rubber-insulated Wire and Cable.
- Listed by UL as Type MV-105, per Standard 1072. 105°C Wet or Dry locations.
- Listed by UL as Sunlight Resistant.
- Sizes 1/0 and larger UL listed For CT Use.
- Conforms to Federal Specification J-C-30B.



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D.	AMPS			APPROX. NET WEIGHT
	AWG/MCM	STRAND	INSULATION	JACKET	INCHES	DIRECT BURIAL[1]	DUCT[2]	AIR[3]	LBS/MFT
8001-15000 VOLTS, SHIELDED, 100% INSULATION LEVEL (GROUNDED NEUTRAL)									
25101	2	7	0.175	0.080	.950	225	165	165	578
25102	1	19	0.175	0.080	.985	260	185	190	651
25103	1/0	19	0.175	0.080	1.025	295	215	215	743
25104	2/0	19	0.175	0.080	1.070	335	245	255	856
25105	3/0	19	0.175	0.080	1.120	380	275	290	994
25106	4/0	19	0.175	0.080	1.175	435	315	330	1168
25107	250	37	0.175	0.080	1.235	475	345	365	1357
25108	350	37	0.175	0.080	1.350	575	415	440	1759
25109	500	37	0.175	0.080	1.480	700	500	535	2308
25110	750	61	0.175	0.080	1.670	865	610	655	3215
25111	1000	61	0.175	0.110	1.890	1005	690	755	4256

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 105°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 105°C for normal operation; 140°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250.4(A)(5) and 250.4(B)(4) of the 2002 NEC.

NOTE:
Sizes 1/0 AWG and larger are marked "Type MV-105 for CT USE" suitable for installation in cable tray per Article 392.12 of the 2002 NEC. Sizes 1/0 and larger also pass the IEEE 1202/FT4 flame test.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
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UL® LISTED

TYPE MV-105, AEIC CS8 - SHIELDED EPR POWER CABLE, 133% INSULATION LEVEL, 15000 VOLT, SUNLIGHT RESISTANT

Construction

Conductor:
- Compressed class B stranded annealed uncoated copper.

Conductor Shield:
- Extruded semi-conducting co-polymer compound.

Insulation:
- 105°C rated Ethylene Propylene Rubber (EPR) per ICEA S-93-639 section 4 and UL-1072.

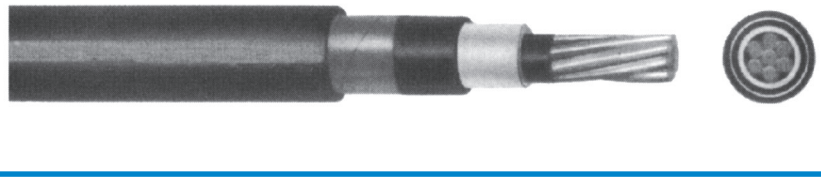
Insulation Shield:
- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:
- Uncoated helically applied 5 mil bare copper tape with a nominal overlap of 25%.

Jacket:
- Extruded PVC jacket with excellent mechanical properties.
- Jacket is UL recognized as being “sunlight resistant.”

Tests:
- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-6.

Industry Approvals:
- Conforms to ICEA S-93-639, NEMA WC74 for 5-46 kV Shielded Power Cable.
- Conforms to ICEA Pub. No. S-97-682 for Utility Shielded Power Cables Rated 5 through 46 kV.
- Conforms to AEIC CS8 for Extended Dielectric, Shielded Power Cables Rated 5 Through 46 kV.
- Listed by UL as Type MV-105, per Standard 1072. 105°C Wet or Dry locations.
- Listed by UL as Sunlight Resistant.
- **Listed by UL for CT use. (1/0) and larger)**



CUSTOM CATALOG NUMBER	CONDUCTOR		NOMINAL THICKNESS (INCHES)		APPROX. O.D.	AMPS			APPROX. NET WEIGHT
	AWG/MCM	STRAND	INSULATION	JACKET	INCHES	DIRECT BURIAL[1]	DUCT[2]	AIR[3]	LBS/MFT
15000 VOLTS, SHIELDED, 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)									
25130	2	7	0.220	0.080	1.050	225	165	165	654
25131	1	19	0.220	0.080	1.085	260	185	190	731
25132	1/0	19	0.220	0.080	1.125	295	215	215	825
25133	2/0	19	0.220	0.080	1.170	335	245	255	941
25134	3/0	19	0.220	0.080	1.225	380	275	290	1122
25135	4/0	19	0.220	0.080	1.280	435	315	330	1320
25136	250	37	0.220	0.080	1.355	475	345	365	1480
25137	350	37	0.220	0.080	1.455	575	415	440	1868
25138	500	37	0.220	0.080	1.585	700	500	535	2427
25139	750	61	0.220	0.110	1.825	865	610	655	3445
25140	1000	61	0.220	0.110	2.060	1005	690	755	4408

1 Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.

2 Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 105°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.

3 Ampacities are based on three single conductor cables in isolated conduit in air, conductor temperature of 105°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or dry locations at maximum operating temperature of 105°C for normal operation; 140°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250.4(A)(5) and 250.4(B)(4) of the 2002 NEC.

NOTE:
Sizes 1/0 AWG and larger are marked “Type MV-105 for CT USE” suitable for installation in cable tray per Article 392.12 of the 2002 NEC. Sizes 1/0 and larger also pass the IEEE 1202/FT4 flame test.

UL® LISTED

AIRPORT LIGHTING CABLES

FAA L824 TYPE C UNSHIELDED 5KV CROSSLINKED POLYETHYLENE

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-8.

Jacket:
- Chemically crosslinked thermosetting compound, black.
- Temperature range: - 20°C to + 90°C.
- Voltage rating: 5KV.

Note:
- 600 Volt Constructions Also Available. Consult Factory For Specifications.

Applications:
- Electrical cables for airport lighting circuits.
- Use in wet and dry locations.
- 90°C use for continuous operation.
- 130°C use for emergency overload.
- 250°C use for short circuit conditions.

Industry Approvals:
- Federal Aviation Administration (FAA) L824 Type C.

CUSTOM CATALOG NUMBER	SIZE	STRAND	NO. OF COND'S	NOM. JACKET THICKNESS	NOMINAL O.D.	CURRENT (AMPS[4])			NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	CONDUIT[1]	DIRECT BURIAL[2]	DUCT[3]	LBS/MFT
13415	8	7	1	0.110	0.366	64	112	87	96
13416	6	7	1	0.110	0.400	82	142	112	132
13417	4	7	1	0.110	0.448	108	186	146	188

1. Ampacity in Conduit based on three single insulated conductors triplexed in single or exposed conduit.
2. Ampacity in Direct Burial based on three single insulated conductors buried directly in the ground; 20°C ambient temperature; 75% load factor and 3.5% power factor; and earth thermal resistivity is based on 90°C centimeters per watt. (Rho=90)
3. Ampacity in Duct based on one conductor per duct, three loaded ducts, 20°C ambient temperature, 75% load factor, Rho=90.
4. The ampacity table is based on 90°C conductor temperature and 40°C air ambient temperatures unless otherwise specified. The power factor is based on 3.5%.

NOTE: Type B is available. Check factory for availability.

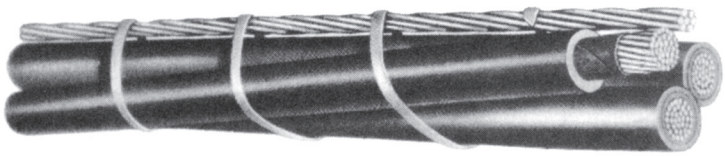
E

PREASSEMBLED SELF-SUPPORTING AERIAL CABLE (SSAC)

Construction

Description:

- Class B strand, bare annealed copper, insulated with heat and moisture resistant XHHW . The conductors shall be cabled in a left hand lay and a messenger of 30% E.H.S. copperclad steel shall be laid parallel and banded with a rounded edge flat bare copper binding strap.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INS. THICKNESS INCHES	MESSENGER SIZE[1] STRAND INCHES	MESSENGER SIZE[1] STRAND STRAND	NOMINAL O.D. INCHES	CURRENT AMPS[2]	NOMINAL WEIGHT LBS/MFT
THREE CONDUCTOR - 600 VOLTS								
12400	8	7	0.045	1/4	7 No. 12	0.770	66	376
12401	6	7	0.045	1/4	7 No. 12	0.850	89	478
12402	4	7	0.045	1/4	7 No. 12	0.960	117	634
12403	2	7	0.045	1/4	7 No. 12	1.090	158	880
12404	1	19	0.055	1/4	7 No. 12	1.220	185	1069
12405	1/0	19	0.055	1/4	7 No. 12	1.300	214	1298
12406	2/0	19	0.055	5/16	7 No. 10	1.470	247	1643
12407	3/0	19	0.055	5/16	7 No. 10	1.580	287	1982
12408	4/0	19	0.055	3/8	7 No. 8	1.770	335	2525
12409	250	37	0.065	3/8	7 No. 8	1.920	374	2946
12410	350	37	0.065	1/2	7 No. 6	2.260	464	4107
12411	500	37	0.065	9/16	7 No. 5	2.620	580	5672
12412	750	61	0.080	9/16	7 No. 5	3.100	747	8120
FOUR CONDUCTOR - 600 VOLTS								
12420	8	7	0.045	1/4	7 No. 12	0.830	53	442
12421	6	7	0.045	1/4	7 No. 12	0.930	72	578
12422	4	7	0.045	1/4	7 No. 12	1.050	94	786
12423	2	7	0.045	1/4	7 No. 12	1.190	126	1114
12424	1	19	0.055	1/4	7 No. 12	1.330	148	1366
12425	1/0	19	0.055	5/16	7 No. 10	1.490	171	1739
12426	2/0	19	0.055	5/16	7 No. 10	1.610	198	2099
12427	3/0	19	0.055	3/8	7 No. 8	1.790	230	2671
12428	4/0	19	0.055	3/8	7 No. 8	1.940	268	3235
12429	250	37	0.065	1/2	7 No. 6	2.230	299	3979
12430	350	37	0.065	1/2	7 No. 6	2.470	371	5271
12431	500	37	0.065	9/16	7 No. 5	2.870	464	7313
12432	750	61	0.080	9/16	7 No. 5	3.400	598	10377
THREE CONDUCTOR - 5000 VOLTS UNSHIELDED								
12440	8	7	0.110	1/4	7 No. 12	1.140	59	448
12441	6	7	0.110	1/4	7 No. 12	1.200	79	553
12442	4	7	0.110	1/4	7 No. 12	1.320	105	718
12443	2	7	0.110	1/4	7 No. 12	1.440	140	958
12444	1	19	0.110	1/4	7 No. 12	1.540	163	1168
12445	1/0	19	0.110	1/4	7 No. 12	1.630	185	1378
12446	2/0	19	0.110	5/16	7 No. 10	1.780	215	1723
12447	3/0	19	0.110	5/16	7 No. 10	1.930	250	2174
12448	4/0	19	0.110	3/8	7 No. 8	2.080	285	2624
12449	250	37	0.120	3/8	7 No. 8	2.220	320	3044
12450	350	37	0.120	1/2	7 No. 6	2.570	395	4210
12451	500	37	0.120	9/16	7 No. 5	2.870	485	5784
12452	750	61	0.130	9/16	7 No. 5	3.340	615	8199

Note: Other materials for messenger and binding strap available upon request. Material can be supplied in other voltages. Check factory. Also available with XLP-USE (heavy wall) on special order.

(1) Messenger Size Based on 150' Span with Sag of 2.5 ft.
(2) Ampacity Based on Cable in Air, 40° Ambient.

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Custom Cable Corp.

MEDIUM VOLTAGE POWER CABLE

THREE CONDUCTOR XLP POWER CABLE - 5000 VOLT MV-90
UNSHIELDED OR SHIELDED 100% AND 133% INSULATION LEVEL

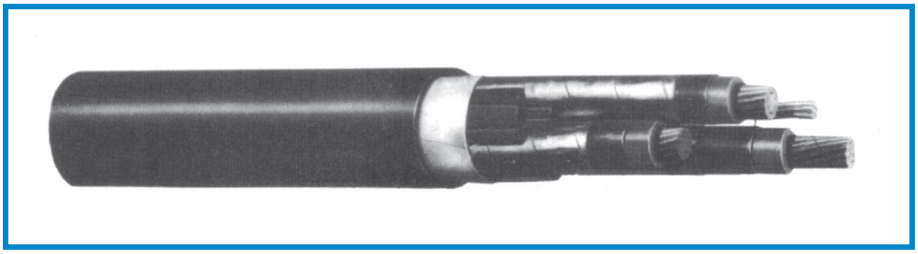
Construction

Description:

- Unshielded: Class B stranded copper, extruded conductor shield, insulated with heat and moisture resistant crosslinked polyethylene (type XLP).
- Shielded: Class B stranded copper, extruded conductor shield, heat and moisture resistant crosslinked polyethylene (100% and 133% insulation level), semi-conducting insulation shield, copper shield, overall PVC jacket.
- 3 conductors, phase identified, (Color coded tape (Black, Red and Blue) applied under the metallic shielding tape) and cabled together with fillers and bare copper ground conductor(s). Cable core covered with binder tape and overall flame and sunlight resistant black PVC jacket. Surface printed. Jacket available in colors on special order.

Standards:

- UL 1072.
- Sunlight Resistant.
- Direct Burial.
- Color Code K-2.
- Conductors rated at 90°C.
- Per ICEA S-66-524/NEMA WC-7.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		COPPER GROUNDING	PVC/JACKET THICKNESS	NOMINAL O.D.	CURRENT (AMPS)	NOMINAL WEIGHT
	AWG/MCM		COND. INSUL.	COND. JACKET	AWG	INCHES	INCHES	40°C[1]	LBS/MFT
THREE CONDUCTOR WITH GROUNDING CONDUCTOR - UNSHIELDED									
13140	8	7	0.110	—	8	0.080	1.000	52	610
13141	6	7	0.110	—	6	0.080	1.060	69	771
13142	4	7	0.110	—	6	0.080	1.170	91	979
13143	2	7	0.110	—	6	0.080	1.300	125	1277
13144	1	19	0.110	—	6	0.080	1.400	140	1532
13145	1/0	19	0.110	—	4	0.080	1.490	165	1787
13146	2/0	19	0.110	—	4	0.080	1.580	190	2092
13147	3/0	19	0.110	—	3	0.110	1.730	220	2591
13148	4/0	19	0.110	—	3	0.110	1.880	255	3090
13149	250	37	0.120	—	3	0.110	2.000	280	3640
13150	350	37	0.120	—	2	0.110	2.240	350	4762
13151	500	37	0.120	—	1	0.110	2.480	425	6397
13152	750	61	0.130	—	1/0	0.140	3.010	525	9079
THREE CONDUCTOR WITH GROUNDING CONDUCTOR - SHIELDED									
13160	8	7	0.090	0.060	8	0.080	1.360	52	1006
13161	6	7	0.090	0.060	6	0.080	1.450	69	1141
13162	4	7	0.090	0.060	6	0.110	1.620	91	1423
13163	2	7	0.090	0.060	6	0.110	1.750	125	1865
13164	1	19	0.090	0.060	4	0.110	1.880	140	2129
13165	1/0	19	0.090	0.060	4	0.110	1.960	165	2405
13166	2/0	19	0.090	0.080	4	0.110	2.090	190	2868
13167	3/0	19	0.090	0.080	3	0.110	2.210	220	3358
13168	4/0	19	0.090	0.080	3	0.110	2.330	255	3848
13169	250	37	0.090	0.080	3	0.110	2.480	280	4418
13170	350	37	0.090	0.080	2	0.140	2.690	350	5592
13171	500	37	0.090	0.080	1	0.140	2.970	425	7338
13172	750	61	0.090	0.080	1/0	0.140	3.400	525	10074

NOTE: Also available with EPR Insulation - consult factory for details.

(1) Per NEC Table 31 0-71. Based on one three-conductor cable.

THREE CONDUCTOR XLP POWER CABLE - 15000 VOLT MV-90 SHIELDED 100% AND 133% INSULATION LEVEL

Construction

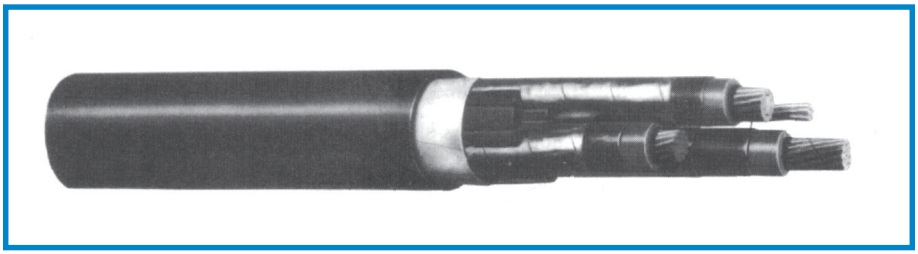
Conductor:
- Class B stranded copper.

Insulation:
- Extruded conductor shield, heat and moisture resistant crosslinked polyethylene (type XLP -100% or 133% insulation level), semi-conducting insulation shield, copper shield (wire or tape), overall PVC jacket.

Cabling:
- Phase identified, (Color coded tape (Black, Red, Blue) applied under the metallic shielding tape) and cabled together with fillers and bare copper ground conductor.

Jacket:
- Cable core covered with binder tape and overall flame and sunlight resistant black PVC jacket. Jacket available in colors on special order.

Industry Approvals:
- UL 1072.
- Sunlight Resistant.
- Direct Burial.
- Color Code K-2.
- Conductors rated at 90°C. Per ICEA S-66-524/NEMA WC-7.



CUSTOM CATALOG NUMBER	SIZE	STRAND	COPPER GROUNDING	NOMINAL THICKNESS (INCHES)		O/A JACKET THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		AWG	COND. INSUL.	COND. JACKET	INCHES	INCHES	AMPS*	LBS/MFT
THREE CONDUCTORS WITH GROUNDING CDNDUCTOR - 100% INSULATION LEVEL (GROUNDED NEUTRAL)									
13600	2	7	6	0.175	0.080	0.110	2.310	145	2387
13601	1	19	4	0.175	0.080	0.110	2.410	165	2673
13602	1/0	19	4	0.175	0.080	0.110	2.500	195	2973
13603	2/0	19	4	0.175	0.080	0.110	2.590	220	3323
13605	4/0	19	3	0.175	0.080	0.140	2.880	290	4277
13606	250	37	3	0.175	0.080	0.140	3.010	315	5040
13607	350	37	2	0.175	0.080	0.140	2.230	385	6447
13608	500	37	1	0.175	0.080	0.140	3.510	470	8236
13609	750	61	1/0	0.175	0.110	0.140	3.980	570	11532
THREE CONDUCTORS WITH GROUNDING CONDUCTOR - 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)									
13620	2	7	6	0.220	0.080	0.110	2.520	145	2616
13621	1	19	4	0.220	0.080	0.110	2.610	165	2969
13622	1/0	19	4	0.220	0.080	0.110	2.690	195	3288
13623	2/0	19	4	0.220	0.080	0.140	2.860	220	3660
13625	4/0	19	3	0.220	0.080	0.140	3.080	290	4837
13626	250	37	3	0.220	0.080	0.140	3.200	315	5541
13627	350	37	2	0.220	0.080	0.140	3.440	385	6826
13628	500	37	1	0.220	0.080	0.140	3.720	470	8611
13629	750	61	1/0	0.220	0.110	0.140	4.340	570	11913

* Per NEC Table 310-71. Based on one three-conductor cable, 40°C Ambient.

NOTE: EPR Insulation Available on Special Order.

E

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Custom Cable Corp.

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www.customwireandcable.com • email: sales@customwireandcable.com

MEDIUM VOLTAGE POWER CABLE

UNISHIELD® EPR - SHIELDED POWER CABLE TYPE MV-90

COMPACT COPPER CONDUCTOR 5KV, 8KV, 15KV 90°C, 25KV AND 35KV AVAILABLE UPON REQUEST

Construction

Conductors:

- Annealed bare copper Compact Class B Strand.
- Extruded Strand Shield.

Insulation:

- Ethylene Propylene Rubber (EPR).
- Insulation colored to contrast with black conducting shield layers.

Composite Insulation Shield & Jacket:

- Six corrugated copper drain wires embedded in an extruded black conducting chlorinated polyethylene (CPE-130) composite insulation shield and jacket.
- Meets or exceeds the requirements of:
  (a) ICEA S-68-516 and AEIC CS6 standard for EPR Insulated Wire and Cable.
  (b) UL 1072 for medium voltage solid dielectric cable.

Applications:

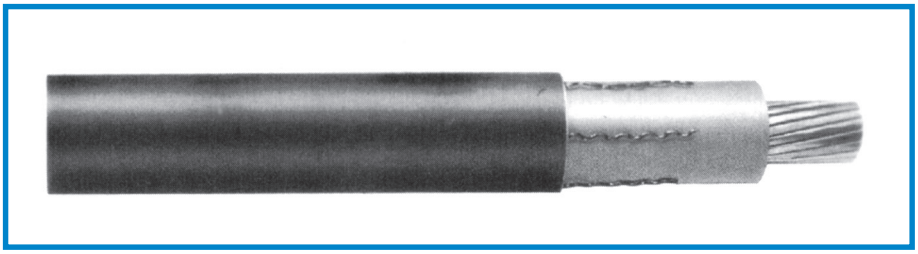
- Commercial, industrial and utility projects such as pulp and paper mills, petrochemical plants, steel mills, textile mills, water and sewage treatment facilities, environmental protection systems, railroads, mines and both fossil fuel and nuclear powered generating stations.

Features:

- Acceptable for use in OSHA regulated installations.
- UL listed as Type MV-90 for use in accordance with the NEC.
- Sizes 250 MCM and larger are also listed "for CT use" in accordance with the NEC.
- Compact conductor and simultaneous extrusion of strand shield. Insulation and insulation shield combine to form a virtually perfect cable core.

EPR Insulation Advantages:

- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemicals and radiation resistance.
- EPR insulation is colored for contrast with black conducting layers to simplify cable preparation for more reliable splices and terminations.
- Combination drain wire shield and jacket provides high short circuit capability and uniform shield impedance. Embedded drain wires will not bunch up and will resist corroding.
- Chlorinated polyethylene (CPE) jackets have excellent moisture, chemical and flame resistance. CPE is a tough jacketing material easily surviving severe installation procedures, including the North Slope in Alaska.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	E. S. SHIELD THICKNESS INCHES	NOM. INSUL. THICKNESS INCHES	DRAIN WIRES AWG (x6)	INSUL SHIELD & JACKET THICK INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
5000 VOLT 133%, OR 8000 VOLT 100% 90°C								
25400	2	7	0.008	0.115	20	0.075	0.710	422
25402	1/0	19	0.008	0.115	20	0.075	0.790	573
25403	2/0	19	0.008	0.115	19	0.080	0.840	687
25404	3/0	19	0.008	0.115	19	0.080	0.890	820
25405	4/0	19	0.008	0.115	19	0.080	0.940	974
25406	250	37	0.008	0.115	18	0.080	1.020	1141
25407	350	37	0.008	0.115	18	0.080	1.120	1500
25408	500	37	0.008	0.115	17	0.085	1.250	2036
25409	750	61	0.008	0.115	17	0.085	1.430	2905
25410	1000	61	0.008	0.115	16	0.100	1.620	3800
15000 VOLT 100% 90°C								
25420	2	7	0.008	0.175	19	0.080	0.850	520
25422	1/0	19	0.008	0.175	19	0.080	0.920	681
25423	2/0	19	0.008	0.175	19	0.080	0.960	790
25424	3/0	19	0.008	0.175	18	0.080	1.020	915
25425	4/0	19	0.008	0.175	18	0.080	1.110	1119
25426	250	37	0.008	0.175	18	0.080	1.140	1259
25427	350	37	0.008	0.175	17	0.085	1.250	1656
25428	500	37	0.008	0.175	17	0.085	1.380	2197
25429	750	61	0.008	0.175	16	0.100	1.590	3137
25430	1000	61	0.008	0.175	16	0.100	1.750	3960
15000 VOLT 133% 90°C								
25440	2	7	0.008	0.220	19	0.080	0.940	586
25442	1/0	19	0.008	0.220	18	0.080	1.020	762
25443	2/0	19	0.008	0.220	18	0.080	1.060	880
25444	3/0	19	0.008	0.220	18	0.080	1.140	1061
25445	4/0	19	0.008	0.220	18	0.080	1.190	1212
25446	250	37	0.008	0.220	17	0.080	1.250	1384
25447	350	37	0.008	0.220	17	0.085	1.350	1775
25448	500	37	0.008	0.220	17	0.085	1.470	2314
25449	750	61	0.008	0.220	16	0.100	1.680	3258
25450	1000	61	0.008	0.220	15	0.115	1.840	4141

OSHA Acceptable
Occupational Safety and Health Administration

UL® LISTED

Custom Cable Corp.

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MEDIUM VOLTAGE POWER CABLE

THREE CONDUCTOR, EPR INSULATION, PVC JACKET, 2400 VOLT, UNSHIELDED, MV 105

Construction

Description:

- Conductor: Class B stranded, annealed copper per ICEA S-96- 659 (NEMA WC71).
- Conductor Shield: Conductor is covered with an extruded conducting thermoset compound bonded to the insulation in accordance with ICEA S-96-659.
- Insulation: Ethylene Propylene Rubber (EPR), the insulated phase conductors are printed with the numerals "1", "2" and "3" for identification.
- Assembly: The three conductors are cabled with a Class B stranded, uncoated copper grounding conductor and suitable fillers in compliance with UL Standard 1072, a binder tape is applied overall.
- Overall Jacket: Sunlight-resistant Polyvinyl Chloride (PVC) per ICEA S-96-659.
- Standards: Cable passes UL and IEEE 383 70,000 BTU/hr flame test and is rated "for CT use", listed by UL as Type MV-90 per Standard 1072.
- Ampacity: Based on a single three-conductor cable in isolated conduit in air per NEC Table 310.75 with a conductor temperature of 90°C and an ambient temperature of 40°C.
- Temperature: 90°C.
- Voltage: 2,400 V.

Applications:

- For use in power circuits up to 2,400 V when installed in open air, conduit, duct, and for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

CUSTOM CATALOG NUMBER	COND. SIZE (AWG/kcmil)	NO. OF STRANDS	INSUL. THICKNESS INCHES	OVERALL JACKET THICK. INCHES	GROUND WIRE SIZE AWG	NOMINAL CABLE O.D. INCHES	APPROX. WEIGHT lbs./ 1000 ft.	AMPS. PER COND.
131410	6	7	0.115	0.080	6	1.20	770	69
131420	4	7	0.115	0.080	6	1.30	1000	91
131430	2	7	0.115	0.080	6	1.43	1315	125
131440	1	19	0.115	0.080	4	1.52	1600	140
131450	1/0	19	0.115	0.080	4	1.60	1750	165
131460	2/0	19	0.115	0.110	4	1.77	2280	190
131470	3/0	19	0.115	0.110	3	1.88	2650	220
131480	4/0	19	0.115	0.110	3	2.00	3235	255
131490	250	37	0.115	0.110	3	2.23	3700	280
131500	350	37	0.115	0.110	2	2.35	4880	350
131510	500	37	0.115	0.110	1	2.63	6640	425
131520	750	61	0.115	0.140	1/0	3.14	9490	525

UL® LISTED

MEDIUM POWER CABLE

THREE CONDUCTOR EPR INSULATION/COPPER TAPE SHIELD WITH OVERALL PVC JACKET, SHIELDED 5KV AND 8KV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MIL INSULATION

Construction

Conductor:
- Annealed bare copper compact Class B strand.

Extruded Strand Shield:
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield:
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

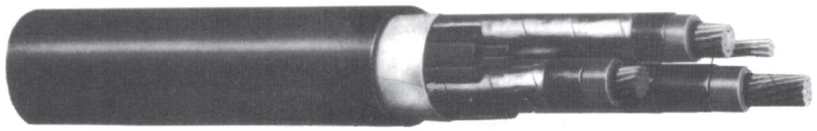
Grounding Conductor
- 1 bare grounding conductor may be in contact with metallic shielding tape.

Jacket Assembly:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Options:
- Low-Smoke, Zero-Halogen (LSZH) jacket.

Applications:
- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical.
- In wet or dry locations when installed in accordance with NEC.
- In aerial, direct burial, conduit, open tray and underground duct installations.

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.



CUSTOM CABLE CATALOG NUMBER	COND. SIZE AWG/kcmil	GROUND WIRE SIZE AWG	NOM. CABLE WEIGHT lbs./1000ft.	COPPER WEIGHT lbs./1000ft.	AMPACITY Conduit in Air (1)	AMPACITY Underground Duct (2)
THREE CONDUCTOR 5kV AND 8kV, UL TYPE MV-105, 133% / 100% INS. LEVELS, 115 MIL						
13180	6	6	939	458	92	95
13181	4	6	1158	621	120	125
13182	2	6	1511	863	165	160
13183	1/0	4	2030	1289	215	210
13184	2/0	4	2449	1561	245	235
13185	4/0	3	3438	2345	320	305
13186	250	2	3893	2859	350	335
13187	350	2	5009	3738	430	400
13188	500	1	6793	5221	525	485
13189	750	1/0	9833	7767	635	585
13190	1000	2/0	12601	10091	725	660

Dimensions and weights are nominal; subject to industry tolerances.

(1) Ampacities are in accordance with Table 310-75 of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310-79 of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.1, 100% load factor, and earth thermal resistance (rho) of 90.

Industry Approval:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr).
- OSHA acceptable.

Optional Flame Tests:
- IEEE 1202 (70,000 BTU/hr)/ CSA FT4.
- ICEA T-29-520 (210,000 BTU/hr).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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MEDIUM POWER CABLE

THREE CONDUCTOR, EPR INSULATION/COPPER TAPE SHIELD WITH OVERALL PVC JACKET. SHIELDED, 15KV, UL TYPE MV-105, 133%/100% INS. LEVELS, 220 MIL INSULATION

Construction

Conductor:
- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield:
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield:
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

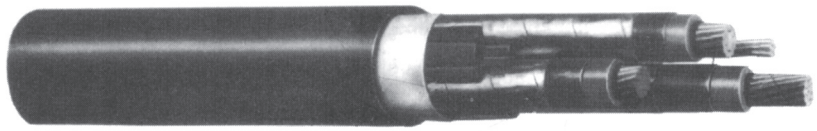
Grounding Conductor
- 1 bare grounding conductor may be in contact with metallic shielding tape.

Jacket Assembly:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Options:
- Low-Smoke, Zero-Halogen (LSZH) jacket. Special.

Applications:
- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical.
- In wet or dry locations when installed in accordance with NEC.
- In aerial, direct burial, conduit, open tray and underground duct installations.

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.



CUSTOM CABLE CATALOG NUMBER	SIZE	GROUND WIRE SIZE	NOMINAL WEIGHT	COPPER WEIGHT	AMPACITY		
	AWG/kcmil	AWG	lbs/1000ft	lbs/1000ft	Conduit in Air (1)	Underground Duct (2)	Direct Burial (3)
THREE CONDUCTOR 15kV, UL TYPE MV-105, 133% INS. LEVELS, 220 MIL							
13680	2	6	2226	929	165	160	185
13681	1/0	4	2811	1332	215	210	240
13682	2/0	4	3163	1601	245	235	275
13683	4/0	3	4203	2412	320	305	360
13684	250	2	4775	2838	350	335	400
13685	350	2	6182	3795	430	400	490
13686	500	1	7686	5276	525	485	600
13687	750	1/0	10978	7799	635	585	745
13688	1000	2/0	18983	10200	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

(1) Ampacities are in accordance with Table 310-75 of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

(2) Ampacities are in accordance with Table 310-79 of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.1, 100% load factor, and earth thermal resistance (rho) of 90.

(3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392-13(B) of the NEC at an ambient air temperature of 40°C (104°F), the ampacities are based on 75% of the values per Table 310-69. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the value shown above.

Industry Approval:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr).
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.
- OSHA acceptable.

Optional Flame Tests:
- IEEE 1202 (70,000 BTU/hr)/ CSA FT4.
- ICEA T-29-520 (210,000 BTU/hr).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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LOW SMOKE, ZERO HALOGEN (LSZH) 5kV / 8kV SHIELDED

EPR/COPPER TAPE SHIELD/LSZH, MEDIUM-VOLTAGE POWER, SHIELDED 5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS

Construction

Conductor:
- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield (ESS):
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH).

Print:
- 1/C SIZE (AWG OR KCMIL) COMPACT CU LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK.
  ** Sizes smaller than 1/0 AWG do not include "FOR CT USE".*

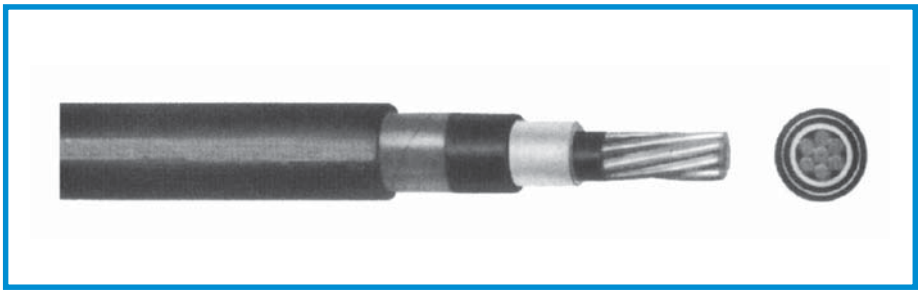
Applications:
- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications.
- For use in wet or dry locations when installed in accordance with NEC.
- For use in aerial, conduit, open tray and underground duct installations.
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5).

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Excellent flame resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.

Compliances:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test.
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- Meets EPA 40 CFR, Part 2671 for leachable lead content per TCLP method.
- OSHA acceptable.

Optional Flame Tests:
- ICEA T-29-520 (210,000 BTU/hr.).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing.



CUSTOM CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	INSULATION DIAMETER (INCHES)		NOMINAL JACKET THICKNESS (INCHES)	NOMINAL CABLE DIAMETER (INCHES)	NOMINAL CABLE WEIGHT (LBS./1000 FT.)	AMPACITY		CONDUIT SIZING (3) (INCHES)
		MIN.	MAX.				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS									
18150*	6	0.415	0.490	0.060	0.65	295	93	97	2
18151*	4	0.455	0.535	0.060	0.70	365	120	125	2.5
18152	2	0.510	0.590	0.060	0.76	471	165	165	2.5
18153*	1	0.545	0.620	0.060	0.79	539	190	185	2.5
18154	1/0	0.580	0.655	0.060	0.82	623	215	215	3
18155	2/0	0.620	0.695	0.060	0.86	728	255	245	3
18156*	3/0	0.665	0.745	0.080	0.94	886	290	275	3
18157	4/0	0.720	0.795	0.080	1.00	1053	330	315	3
18158*	250	0.770	0.850	0.080	1.05	1199	365	345	3.5
18159	350	0.870	0.945	0.080	1.14	1559	440	415	3.5
18160	500	0.990	1.065	0.080	1.27	2088	535	500	4
18161	750	1.170	1.250	0.080	1.45	2962	655	610	5
18162*	1000	1.330	1.400	0.080	1.60	3815	755	690	5

* Non-stock item, minimum runs apply. Please consult Customer Service for price and delivery.

[1] Ampacities are in accordance with Table 310-73 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

[2] Ampacities are in accordance with Table 310-77 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

[3] Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

Dimensions and weights are nominal; subject to industry tolerances.

Note: Sizes smaller than 1/0 AWG do not include "FOR CT USE".

UL® LISTED

LOW SMOKE, ZERO HALOGEN (LSZH) 15kV SHIELDED

EPR/COPPER TAPE SHIELD/LSZH, MEDIUM-VOLTAGE POWER, SHIELDED 15kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS

Construction

Conductor:
- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield (ESS):
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

Jacket:
- Lead free, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH).

Print:
- 1/C SIZE (AWG OR KCMIL) COMPACT CU LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUNRES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK.
  ** Sizes smaller than 1/0 AWG do not include "FOR CT USE".*

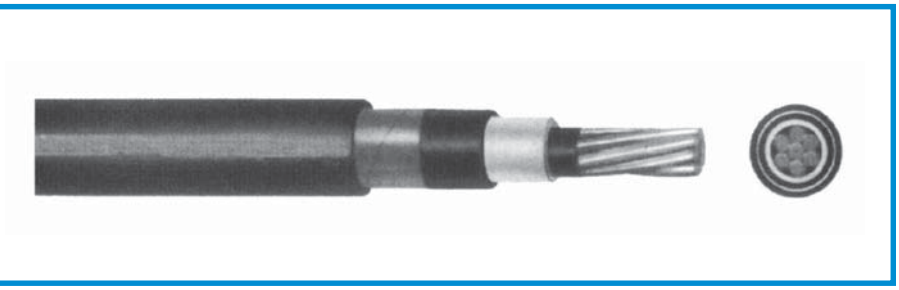
Applications:
- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications.
- For use in wet or dry locations when installed in accordance with NEC.
- For use in aerial, conduit, open tray and underground duct installations.
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4 (A) (5).

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Excellent flame resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.

Compliances:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test.
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- Meets EPA 40 CFR, Part 2671 for leachable lead content per TCLP method.
- OSHA acceptable.

Optional Flame Tests:
- ICEA T-29-520 (210,000 BTU/hr.).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing.



CUSTOM CATALOG NUMBER	COND. SIZE	INSULATION DIAMETER (INCHES)		NOMINAL JACKET THICKNESS (INCHES)	NOMINAL CABLE		COPPER WEIGHT	AMPACITY			CONDUIT SIZING[4]
	AWG/kcmil	MIN.	MAX.		DIAMETER (INCHES)	WEIGHT LBS./1000 FT	LBS./1000 FT	CONDUIT IN AIR[1]	UNDERGROUND DUCT[2]	TRAY[3]	INCHES
15kV[V], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS											
18180	2	0.710	0.800	0.080	0.99	658	276	165	165	-	3
18181*	1	0.745	0.830	0.080	1.02	733	332	190	185	-	3.5
18182*	1/0	0.780	0.865	0.080	1.06	825	403	215	215	220	3.5
18183	2/0	0.820	0.905	0.080	1.10	938	492	255	245	250	3.5
18184*	3/0	0.865	0.955	0.080	1.14	1078	603	290	275	290	3.5
18185	4/0	0.920	1.005	0.080	1.21	1261	743	330	315	335	3.5
18186*	250	0.970	1.060	0.080	1.25	1407	866	365	345	370	4
18187	350	1.070	1.155	0.080	1.35	1783	1184	440	415	460	5
18188	500	1.190	1.275	0.080	1.47	2331	1657	535	500	575	5
18189	750	1.370	1.460	0.080	1.65	3234	2445	655	610	745	6
18190*	1000	1.520	1.610	0.110	1.86	4219	3228	755	690	890	6

* Non-stock item, minimum runs apply. Please consult Customer Service for price and delivery.

1 Ampacities are in accordance with Table 310-73 of the NEC for triplexed or three single conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

2 Ampacities are in accordance with Table 310-77 of the NEC for triplexed or three single conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

3 Ampacities are based on single conductor Type MV-105 sizes 1/0 AWG and larger in an uncovered tray in accordance with Section 392-13(B) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310-69. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the values shown above.

4 Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

V 100% insulation level is available upon request.

Dimensions and weights are nominal; subject to industry tolerances.

Note: Sizes smaller than 1/0 AWG do not include "FOR CT USE".

E

LOW SMOKE, ZERO HALOGEN (LSZH) 3 CONDUCTOR, 5kV / 8kV SHIELDED

EPR/COPPER TAPE SHIELD WITH OVERALL LSZH JACKET, MEDIUM-VOLTAGE POWER, SHIELDED 5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR

Construction

Conductor:
- 6 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield (ESS):
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

Grounding Conductor:
- 1 bare grounding conductor may be in contact with metallic shielding tape.

Overall Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH).

Print:
- 3/C SIZE (AWG OR KCMIL) COMPACT CU LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUNRES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK.

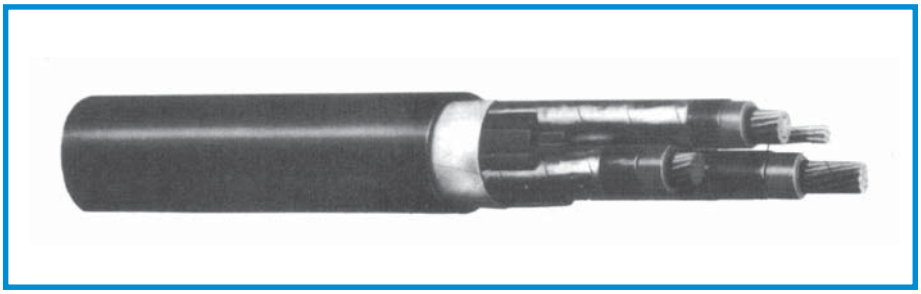
Applications:
- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical.
- In wet or dry locations when installed in accordance with NEC.
- In aerial, direct burial, conduit, open tray and underground duct installations.

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.

Compliances:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- ICEA T-33-655.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr.)
- OSHA acceptable.

Optional Flame Tests:
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- ICEA T-29-520 (210,000 BTU/hr.).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and triplexing.



CUSTOM CATALOG NUMBER	COND. SIZE (AWG/ kcmil)	INSULATION DIAMETER (INCHES)		GROUND WIRE (AWG)	NOMINAL JACKET THICKNESS (INCHES)	NOMINAL CABLE DIAMETER (INCHES)	NOMINAL CABLE WEIGHT (LBS./1000 FT.)	AMPACITY	
		MIN.	MAX.					CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR									
18300*	6	0.415	0.490	6	0.080	1.29	939	92	95
18301*	4	0.455	0.535	6	0.080	1.39	1158	120	125
18302*	2	0.510	0.590	6	0.080	1.51	1511	165	160
18303*	1/0	0.580	0.655	4	0.080	1.67	2030	215	210
18304*	2/0	0.620	0.695	4	0.080	1.82	2449	245	235
18305*	4/0	0.720	0.795	3	0.110	2.07	3438	320	305
18306*	250	0.770	0.850	2	0.110	2.15	3968	350	335
18307*	350	0.870	0.945	2	0.110	2.36	5009	430	400
18308*	500	0.990	1.065	1	0.110	2.64	6793	525	485
18309*	750	1.170	1.250	1/0	0.140	3.14	9833	635	585
18310*	1000	1.330	1.400	2/0	0.140	3.48	12601	725	660

* Non-stock item, minimum runs apply. Please consult Customer Service for price and delivery.

[1] Ampacities are in accordance with Table 310-75 of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and ar ambient air temperature of 40°C (104°F).

[2] Ampacities are in accordance with Table 310-79 of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Dimensions and weights are nominal; subject to industry tolerances.

Note: Sizes smaller than 1/0 AWG do not include “FOR CT USE”.

LOW SMOKE, ZERO HALOGEN (LSZH) 3 CONDUCTOR, 15kV SHIELDED

EPR/COPPER TAPE SHIELD WITH OVERALL LSZH JACKET, MEDIUM-VOLTAGE POWER, SHIELDED 15kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR

Construction

Conductor:
- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield (ESS):
- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield (EIS):
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:
- 5 mil annealed copper tape with an overlap of 25%.

Grounding Conductor:
- 1 bare grounding conductor may be in contact with metallic shielding tape.

Overall Jacket:
- Flame-retardant, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

Print:
- 3/C SIZE (AWG OR KCMIL) COMPACT CU LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK.

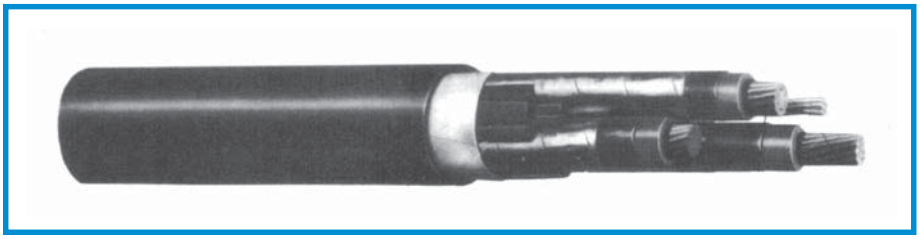
Applications:
- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical.
- In wet or dry locations when installed in accordance with NEC.
- In aerial, direct burial, conduit, open tray and underground duct installations.
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5).

Features:
- Rated at 105°C.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.

Compliances:
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- ICEA T-33-655.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr.)
- OSHA acceptable.

Optional Flame Tests:
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- ICEA T-29-520 (210,000 BTU/hr.).

Packaging:
- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, and paralleling.



CUSTOM CATALOG NUMBER	COND. SIZE	INSULATION DIAMETER (INCHES)		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS INCHES	NOMINAL CABLE		AMPACITY		
	AWG/kcmil	MIN.	MAX.			DIAMETER INCHES	WEIGHT LBS./1000 FT.	CONDUIT IN AIR [1]	UNDERGROUND CONDUIT [2]	DIRECT BURIAL [3]
15kV[v], UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR										
18330*	2	0.710	0.800	6	0.110	2.04	2226	165	160	185
18331*	1/0	0.780	0.865	4	0.110	2.20	2811	215	210	240
18332*	2/0	0.820	0.905	4	0.110	2.30	3163	245	235	275
18333*	4/0	0.920	1.005	3	0.110	2.52	4203	320	305	360
18334*	250	0.970	1.060	2	0.110	2.66	4775	350	335	400
18335*	350	1.070	1.155	2	0.110	2.94	6182	430	400	490
18336*	500	1.190	1.275	1	0.140	3.21	7686	525	485	600
18337*	750	1.370	1.460	1/0	0.140	3.61	10978	635	585	745
18338*	1000	1.520	1.610	2/0	0.140	3.99	13938	725	660	860

* Non-stock item, minimum runs apply. Please consult Customer Service for price and delivery.

1 Ampacities are in accordance with Table 310-75 of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).

2 Ampacities are in accordance with Table 310-79 of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

3 Ampacities are based on single conductor Type MV-105 sizes 1/0 AWG and larger in an uncovered tray in accordance with Section 392-13(B) of the NEC at an ambient air temperature of 40°C (104°F); the ampacities are based on 75% of the values per Table 310-71. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed the values in NEC Table 310-75.

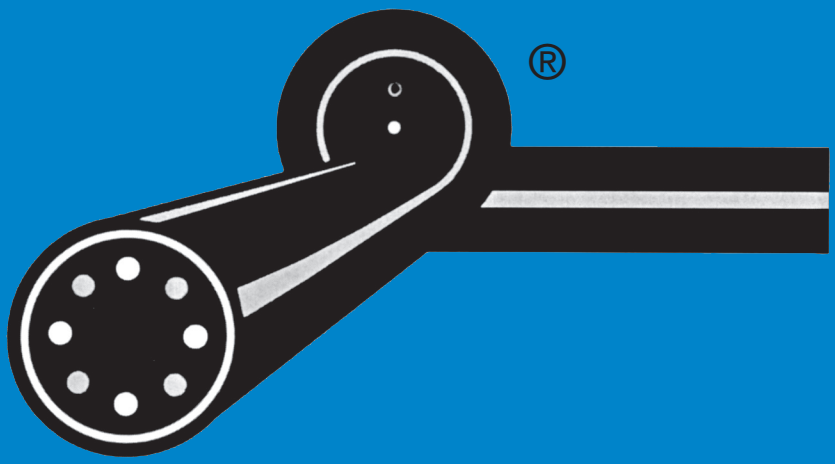
v 100% insulation level is available upon request.

Dimensions and weights are nominal; subject to industry tolerances.

Note: Sizes smaller than 1/0 AWG do not include “FOR CT USE”.

E

POWER CABLE



F

POWER CABLE

THHN POWER CABLE - TYPE TC
90°C DRY - 75°C WET - 600 VOLT

Construction

Conductor:
- Stranded soft annealed copper.

Insulation:
- Snug-fitting concentric layer of 90°C polyvinyl chloride (PVC).

Conductor Jacket:
- Applied directly over the PVC insulation is a tough nylon jacket offering physical protection to the insulation.

Color Code:
- The individual conductors are colored black and identified with printed conductor numbers on each conductor in the cable, per ICEA Method 4.

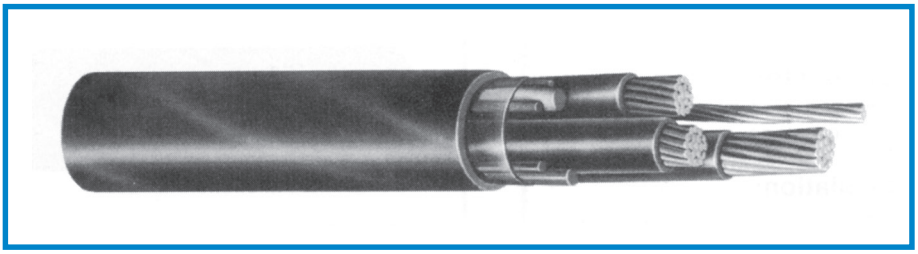
Cabling:
- The specified number of conductors are cabled with or without ground wires, as applicable. Non-hygroscopic fillers are used as needed to maintain a substantially circular cross section, and the entire assembly is wrapped with a suitable cable tape.

Overall Jacket:
- A heavy-duty PVC jacket to meet the requirements of UL is applied over the assembled core.

Features:
- OSHA Accepted.
- Small diameter, light weight.
- UL Listed for 90°C 600 volts.
- Flame, moisture and sunlight resistant.
- Meets UL 1277 Tray Fire Test with 70,000 BTU/hr. as well as 210,000 BTU/hr. flame source.
- Oil and gas resistant conductors.
- Also resistant to a broad range of chemicals.

Rating:
- 90°C, 600 Volts.

Applications:
- THHN/TC cable is approved for tray, raceway, direct burial and aerial installations (when supported by messenger). It is also approved for tray use in Class 1, Division 2, hazardous locations as permitted in NEC Articles 318 and 501. It complies with the appropriate sections of NEC Articles 318, 340, 501 and 725.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NYLON	JACKET	NOMINAL O.D. INCHES	CURRENT AMPS[1]	NOMINAL WEIGHT LBS/MFT
THREE CONDUCTORS WITHOUT GROUNDING CONDUCTOR								
13000	8	7	0.030	0.005	0.060	0.610	59	280
13001	6	7	0.030	0.005	0.060	0.695	79	400
13002	4	7	0.040	0.006	0.060	0.895	104	660
13003	2	7	0.040	0.006	0.080	1.040	138	980
13004	1/0	19	0.050	0.007	0.080	1.250	186	1455
13005	2/0	19	0.050	0.007	0.080	1.360	215	1780
13006	3/0	19	0.050	0.007	0.080	1.420	249	2000
13007	4/0	19	0.050	0.007	0.080	1.590	287	2605
13008	250	37	0.060	0.008	0.110	1.830	326	3205
13009	350	37	0.060	0.008	0.110	2.050	394	4330
13010	500	37	0.060	0.008	0.110	2.300	487	5950
THREE CONDUCTORS WITH GROUNDING CONDUCTOR								
13060	8	7	0.030	0.005	0.060	0.600	59	320
13061	6	7	0.030	0.005	0.060	0.700	79	460
13062	4	7	0.040	0.006	0.060	0.900	104	720
13063	2	7	0.040	0.006	0.080	1.040	138	1075
13064	1	19	0.050	0.007	0.080	1.120	161	1240
13065	1/0	19	0.050	0.007	0.080	1.250	186	1550
13066	2/0	19	0.050	0.007	0.080	1.360	215	1875
13077	3/0	19	0.050	0.007	0.080	1.430	249	2200
13088	4/0	19	0.050	0.007	0.080	1.600	287	2800
13089	250	37	0.060	0.008	0.110	1.830	320	3400
13090	350	37	0.060	0.008	0.110	2.050	394	4525
13091	500	37	0.060	0.008	0.110	2.300	487	6250

NOTE: We reserve the right to ship different UL approved configurations for ground wire sizes.

1 Based on not more than three conductors in cable in free air with ambient of 40°C and 90°C conductor temperature.

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242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

THHN POWER CABLE - TYPE TC - NEC® ARTICLE 340
90°C DRY - 75°C WET - 600 VOLT

Construction

Conductor:
- Stranded soft annealed copper.

Insulation:
- Snug-fitting concentric layer of 90°C polyvinyl chloride (PVC).

Conductor Jacket:
- Applied directly over the PVC insulation is a tough nylon jacket offering physical protection to the insulation.

Color Code:
- The individual conductors are colored black and identified with printed conductor numbers on each conductor in the cable, per ICEA Method 4.

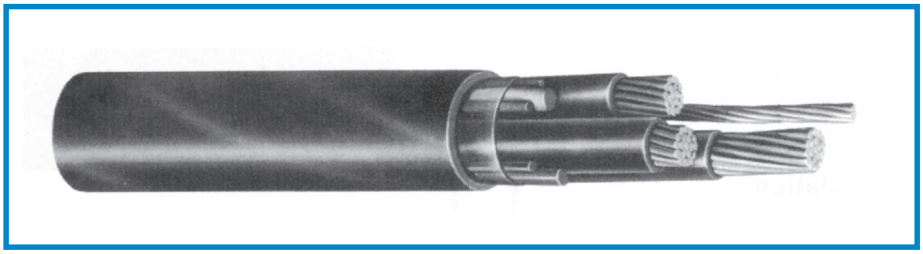
Cabling:
- The specified number of conductors are cabled with or without ground wires, as applicable. Non-hygroscopic fillers are used as needed to maintain a substantially circular cross section, and the entire assembly is wrapped with a suitable cable tape.

Overall Jacket:
- A heavy-duty PVC jacket to meet the requirements of UL is applied over the assembled core.

Features:
- OSHA Accepted.
- Small diameter, light weight.
- UL Listed for 90°C 600 volts.
- Flame, moisture and sunlight resistant.
- Meets UL 1277 Tray Fire Test with 70,000 BTU/hr. as well as 210,000 BTU/hr. flame source.
- Oil and gas resistant conductors.
- Also resistant to a broad range of chemicals.

Rating:
- 90°C, 600 Volts.

Applications:
- THHN/TC cable is approved for tray, raceway, direct burial and aerial installations (when supported by messenger). It is also approved for tray use in Class 1, Division 2, hazardous locations as permitted in NEC Articles 318 and 501. It complies with the appropriate sections of NEC Articles 318, 340, 501 and 725.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NYLON	JACKET	NOMINAL O.D. INCHES	CURRENT AMPS[1]	NOMINAL WEIGHT LBS/MFT
FOUR CONDUCTORS WITHOUT GROUNDING CONDUCTOR								
13020	8	7	0.030	0.005	0.060	0.700	59	345
13021	6	7	0.030	0.005	0.060	0.750	79	490
13022	4	7	0.040	0.006	0.060	0.970	104	765
13023	2	7	0.040	0.006	0.080	1.140	138	1140
13024	1/0	19	0.050	0.007	0.080	1.360	186	1710
13025	2/0	19	0.050	0.007	0.080	1.470	215	2350
13026	3/0	19	0.050	0.007	0.080	1.590	249	2500
13027	4/0	19	0.050	0.007	0.110	1.800	287	3340
13028	250	37	0.060	0.008	0.110	1.930	326	3960
13029	350	37	0.060	0.008	0.110	2.200	394	5520
13030	500	37	0.060	0.008	0.110	2.500	489	7950
FOUR CONDUCTORS WITH GROUNDING CONDUCTOR								
13040	8	7	0.030	0.005	0.060	0.700	47	385
13041	6	7	0.030	0.005	0.060	0.750	63	550
13042	4	7	0.040	0.006	0.060	0.970	83	830
13043	2	7	0.040	0.006	0.080	1.140	110	1240
13044	1	19	0.050	0.007	0.080	1.220	129	1540
13045	1/0	19	0.050	0.007	0.080	1.360	149	1810
13046	2/0	19	0.050	0.007	0.080	1.470	172	2450
13047	3/0	19	0.050	0.007	0.080	1.590	199	2650
13048	4/0	19	0.050	0.007	0.110	1.800	230	3520
13049	250	37	0.060	0.008	0.110	1.930	256	4120
13050	350	37	0.060	0.008	0.110	2.200	315	5675
13051	500	37	0.060	0.008	0.110	2.500	390	8150

NOTE: We reserve the right to ship different UL approved configurations for ground wire sizes.

1 Based on not more than four conductors in cable in free air with ambient of 40°C and 90°C conductor temperature. If one conductor is a neutral, carrying only unbalanced current from the other three conductors, the three conductor ampacity may be used.

F

Passes UL 70,000 BTU Flame Test

Passes 210,000 BTU Flame Test

OSHA Acceptable
Occupational Safety and Health Administration

UL® LISTED

Custom Cable Corp.

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POWER CABLE

XHHW-2 POWER CABLE - TYPE TC - NEC® ARTICLE 340 - 90°C WET & DRY - 600 VOLT

Construction

Conductor:
- Class B stranded uncoated copper conductor.

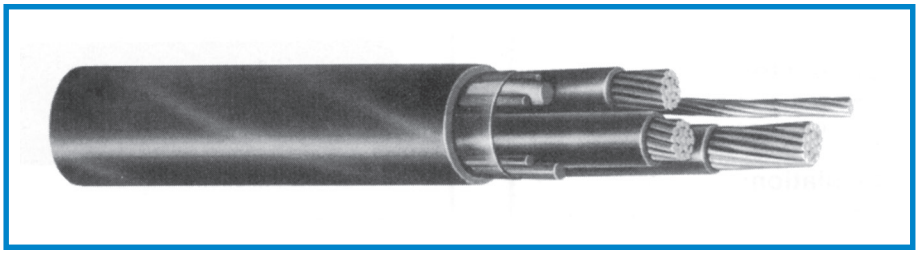
Insulation:
- XLP crosslinked polyethylene insulation, surface print phase identification (black and numbered).

Cabling:
- Three insulated conductors twisted with a Class B stranded uncoated copper grounding conductor and suitable fillers, cable tape.

Jacket:
- Black PVC jacket overall, surface printed.

Application:
- As flame-retardant three conductor power cables rated 600 volts, 90°C in wet or dry locations. Specifically approved for installation in cable trays per Article 340 of the NEC. Type TC cables are approved for use in Class I and II, Division 2 hazardous locations. Cables may be installed in open air, in ducts or conduits, in tray or trough, or direct buried.

Industry Approvals:
- Listed by UL as Type TC Tray Cable per Article 340 of the NEC.
- Individual conductors UL listed as Type XHHW-2.
- Overall jacket UL listed as Sunlight Resistant.
- Cables pass UL and IEEE-383 ribbon burner flame tests.
- Cables UL listed for Direct Burial.
- Cables meet requirements of ICEA Pub. No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked Polyethylene insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	GROUND COND.	CURRENT (AMPS*)		NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AWG	75°C	90C°	LBS/MFT
THREE CONDUCTORS WITH GROUNDING CONDUCTOR									
13100	8	7	0.045	0.060	0.660	10	50	55	325
13101	6	7	0.045	0.060	0.740	8	65	75	450
13102	4	7	0.045	0.080	0.880	8	85	95	655
13103	2	7	0.045	0.080	1.000	6	115	130	960
13104	1	19	0.055	0.080	1.130	6	130	150	1170
13105	1/0	19	0.055	0.080	1.220	6	150	170	1425
13106	2/0	19	0.055	0.080	1.310	6	175	195	1720
13107	3/0	19	0.055	0.080	1.420	4	200	225	2140
13108	4/0	19	0.055	0.080	1.550	4	230	260	2635
13109	250	37	0.065	0.110	1.760	4	255	290	3180
13110	350	37	0.065	0.110	1.980	3	310	350	4285
13111	500	37	0.065	0.110	2.260	2	380	430	5940
13112	750	61	0.080	0.110	2.710	1	475	535	9010
13113	1000	61	0.080	0.140	3.100	1/0	545	615	11700

* Ampacity in accordance with Art. 318-11 of the NEC for cables installed in uncovered cable tray with or without maintained spacing and to cable installed in raceway in free air; at the conductor temperature indicated, in wet or dry locations, 30°C ambient temperature.

NOTES:
1. Grounding conductor per UL Standard 1277 for Type TC Tray Cable.
2. Cables available with Neoprene, Hypalon® or CPE® overall jacket.
3. We reserve the right to supply other UL approved ground configurations unless otherwise specified.

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XHHW-2 POWER CABLE - TYPE TC - NEC® ARTICLE 340 - 90°C WET & DRY - 600 VOLT

Construction

Conductor:
- Class B stranded uncoated copper conductor.

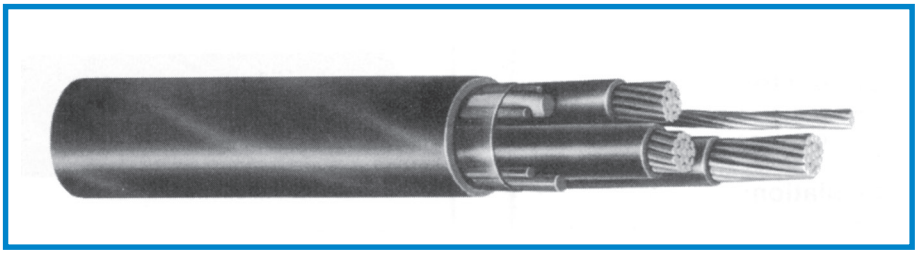
Insulation:
- XLP crosslinked polyethylene insulation, surface print phase identification (black and numbered).

Cabling:
- Four insulated conductors twisted with a Class B stranded uncoated copper grounding conductor in two opposite valleys, suitable fillers, cable tape.

Jacket:
- PVC jacket overall, surface printed.

Application:
- As flame-retardant four conductor power cables rated 600 volts, 90°C in wet or dry locations. Specifically approved for installation in cable trays per Article 340 of the NEC. Type TC cables are approved for use in Class I and II, Division 2 hazardous locations. Cables may be installed in open air, in ducts or conduits, in tray or trough, or direct buried.

Industry Approvals:
- Listed by UL as Type TC Tray Cable per Article 340 of the NEC.
- Individual conductors UL listed as Type XHHW-2.
- Overall jacket UL listed as Sunlight Resistant.
- Cables pass UL and IEEE-383 ribbon burner flame tests.
- Cables UL listed for Direct Burial.
- Cables meet requirements of ICEA Pub. No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked Polyethylene insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	JACKET	NOMINAL O.D. INCHES	GROUND COND. SIZE[1] (AWG)	CURRENT (AMPS) 90°C DIRECT BURIAL*	75°C DIRECT BURIAL*	90°C TRAY**	75°C TRAY**	NOMINAL WEIGHT LBS/MFT
FOUR CONDUCTORS WITH GROUNDING CONDUCTOR											
13120	8	7	0.045	0.060	0.720	12	44	40	55	50	415
13121	6	7	0.045	0.060	0.810	10	60	52	75	65	575
13122	4	7	0.045	0.080	0.960	10	76	68	95	85	840
13123	2	7	0.045	0.080	1.100	9	104	92	130	115	1200
13124	1	19	0.055	0.080	1.250	9	120	104	150	130	1545
13125	1/0	19	0.055	0.080	1.350	9	104	120	170	150	1835
13126	2/0	19	0.055	0.080	1.450	9	156	140	195	175	2195
13127	3/0	19	0.055	0.080	1.580	7	180	160	225	200	2800
13128	4/0	19	0.055	0.110	1.770	7	208	184	260	230	3460
13129	250	37	0.065	0.110	1.930	7	232	204	290	255	4040
13130	350	37	0.065	0.110	2.180	6	280	248	350	310	5475
13131	500	37	0.065	0.110	2.500	5	344	304	430	380	7635
13132	750	61	0.080	0.140	3.120	4	428	380	535	475	11400

* Ampacity in accordance with the NEC for cables in raceway or directly buried, at the conductor temperature indicated in wet or dry locations, 30°C ambient temperature.

** Ampacity in accordance with Art. 318-11 of the NEC for cables installed in uncovered cable tray with or without maintained spacing, at the conductor temperature indicated in wet or dry locations, 30°C ambient temperature. Derating for more than three conductors per Note 8 (a) of Art. 310 notes to ampacity tables of 0 to 2000 volts shall not apply to the ampacity of cables in cable trays.

NOTES:
1. Grounding conductors per UL Standard 1277 for Type TC Tray Cable.
2. Cables available with Neoprene, Hypalon® or CPE overall jacket.
3. We reserve the right to supply other ground configurations unless otherwise specified.

F

UL® LISTED

Passes UL 70,000 BTU Flame Test

Passes IEEE 383 70,000 BTU Flame Test

POWER CABLE

EPR INSULATION WITH HYPALON® JACKET POWER CABLE
600 VOLT, 90°C WET AND DRY - TYPE TC

Construction

Conductors:
- Coated, annealed copper ASTM B-189.
- Concentric stranded, class B ASTM B-8 and UL-44 paragraph 5.1 (An opaque separator is applied between the conductor and insulation to facilitate stripping.) Grounding conductor (where applicable) uncoated annealed copper class B Stranding.

Insulation:
- EPR Insul. VW1.
- Thickness per UL-44 table 15.3 and ICEA S-68-516 part 3 table 3-1 column B.

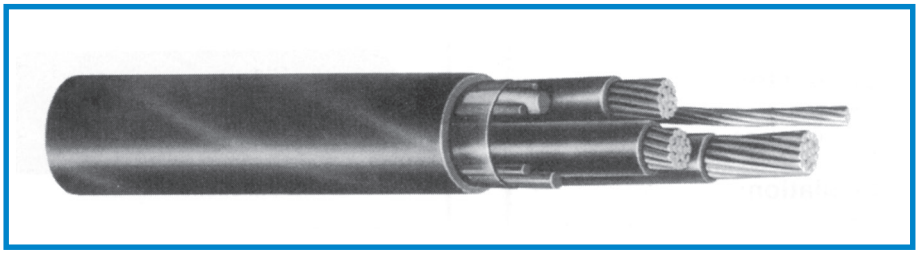
Cabling:
- Three and four conductors are assembled round with flame resistant, non-hygroscopic and non-wicking neoprene fillers as needed. A flame resistant, non-hygroscopic and non-wicking tape binder is applied over the assembly. Three conductor cables are cabled with a grounding conductor.

Overall Jacket:
- Heavy duty, flame and sunlight resistant Black VW1 Hypalon® per UL-1277 table 10.1.

Color Coding:
- Black insulation with ICEA Method 4 printed color code.

Scope:
- Cables conform to Article 318 "Cable Trays" and Article 340 "Power and Control Cables Type TC" of the 1981 NEC, Subject 1277 of UL, and ICEA S-66-524; and meet the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383. Cables show reserve capabilities by also passing the 210,000 BTU flame test.

Applications:
- UL listed and OSHA acceptable. Recognized for use in Class 1, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts, conduit and aerially where supported by a messenger. Specifically approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required. Designed to supply power to motors, or for connections to other power devices.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NO. OF COND'S	GROUNDING GDR	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
THREE CONDUCTORS WITH GROUNDING CONDUCTOR								
22700	8	7	3	10	0.045	0.060	0.660	307
22701	6	7	3	8	0.045	0.060	0.740	424
22702	4	7	3	8	0.045	0.080	0.885	650
22703	2	7	3	6	0.045	0.080	1.010	956
22704	1	19	3	6	0.055	0.080	1.155	1151
22705	1/0	19	3	6	0.055	0.080	1.230	1470
22706	2/0	19	3	6	0.055	0.080	1.325	1781
22707	3/0	19	3	4	0.055	0.080	1.440	2168
22708	4/0	19	3	4	0.055	0.080	1.570	2548
22709	250	37	3	4	0.065	0.110	1.740	3268
22710	350	37	3	3	0.065	0.110	1.990	4155
22711	500	37	3	2	0.065	0.110	2.260	5696
22712	750	61	3	1	0.080	0.140	2.820	8571
FOUR CONDUCTORS WITHOUT GROUNDING CONDUCTOR								
22720	8	7	4	—	0.045	0.060	0.706	384
22721	6	7	4	—	0.045	0.060	0.800	534
22722	4	7	4	—	0.045	0.080	0.958	815
22723	2	7	4	—	0.045	0.080	1.105	1189
22724	1	19	4	—	0.055	0.080	1.261	1516
22725	1/0	19	4	—	0.055	0.080	1.360	1817
22726	2/0	19	4	—	0.055	0.080	1.469	2202
22727	3/0	19	4	—	0.055	0.080	1.594	2820
22728	4/0	19	4	—	0.055	0.110	1.794	3417
22729	250	37	4	—	0.065	0.110	1.955	4112
22730	350	37	4	—	0.065	0.110	2.210	5420
22731	500	37	4	—	0.065	0.110	2.530	7439
22732	750	61	4	—	0.080	0.140	3.120	11203

F

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989

www.customwireandcable.com • email: sales@customwireandcable.com

UL LISTED BUS DROP CABLES - THERMOPLASTIC JACKETED (PVC) - 600 VOLT

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-8 or B-174 as applicable.

Insulation:
- Premium grade color coded polyvinyl chloride (PVC).
- Color Code:
  (3 cdr) Black, White, Red
  (4 cdr) Black, White, Red, Blue.

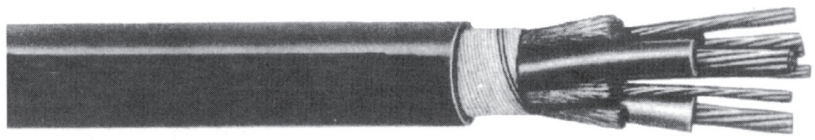
Jacket:
- Thermoplastic (PVC) jacket, gray.
- Temperature range: -20°C to +60°C.
- Voltage rating 600 volts.

Jacket Marking:
- All sizes indent printed showing gauge, number of conductors, voltage, type and (UL).

Applications:
- As branches from busways per NEC.
- Connection of stationary equipment to facilitate relocation of equipment.

Features:
- Used in dry location.
- One uninsulated ground conductor per interstice.
- Resistant to oils, lubricants, water, acids, alkalies, ozone and abrasion.

Industry Approvals:
- UL.
- OSHA Acceptable.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	GROUND WIRES (3) AWG/MCM	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS	NOMINAL WEIGHT LBS/MFT
THREE CONDUCTORS WITH THREE GROUNDING CONDUCTORS								
20200	14	3	19	18	0.030	0.400	15	120
20201	12	3	19	16	0.030	0.440	20	150
20202	10	3	19	14	0.030	0.500	30	225
20203	8	3	19	14	0.045	0.665	40	370
20204	6	3	19	14	0.060	0.815	55	600
20205	4	3	19	12	0.060	0.955	70	820
20206	2	3	133	12	0.060	1.175	95	1190
FOUR CONDUCTORS WITH FOUR GROUNDING CONDUCTORS								
20210	14	4	7	18	0.030	0.440	12	133
20211	12	4	7	16	0.030	0.480	16	179
20212	10	4	7	14	0.030	0.570	24	271
20213	8	4	7	14	0.045	0.720	32	426
20214	6	4	7	14	0.060	0.890	44	662
20215	4	4	7	12	0.060	1.050	56	990
20216	2	4	7	12	0.060	1.190	76	1420

NOTE: 2/4 conductor is not UL listed.

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UL® LISTED

OSHA Acceptable
Occupational Safety and Health Administration

Custom Cable Corp.

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www.customwireandcable.com • email: sales@customwireandcable.com

POWER CABLE

FR-EPR INSULATION - CPE JACKET - 600 VOLT - 90°C DRY - 75°C WET - TYPE TC

Construction

Conductor:
- Class B stranded tinned copper.

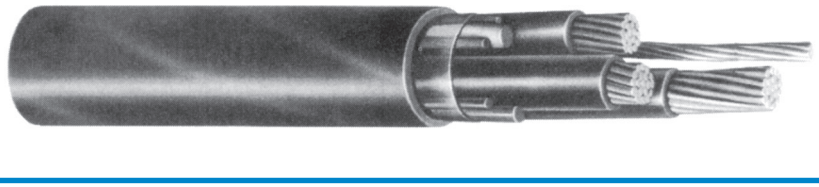
Insulation:
- FR-EPR flame retardant ethylene-propylene rubber per ICEA Pub. No. S-68-516 Part 3, Para. 3.7 and UL requirements for EPCV insulated VW-1 conductors rated 90°C dry, 75°C wet.

Color Code:
- Phase conductors are black, printed “1”, “2”, and “3”.

Cabling:
- Phase conductors are cabled together with Class B stranded, tinned copper grounding conductor and suitable non-hygroscopic fillers. Cable assembly covered with a suitable tape.

Overall Jacket:
- Chlorinated polyethylene (CPE) meeting requirements of ICEA No. S-68-516, Part 4 and Sunlight Resistant and Oil Resistant II requirements of UL 1277.

Features:
- Individual conductors shall be tested in accordance with UL requirements for Type TC Power and Control cables having EPCW VW-1 insulated conductors and ICEA Pub. S-68-516. Cables pass Ribbon Burner Cable Tray Flame Test requirements of UL and IEEE Standard 383.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NO. OF COND'S	GROUNDING CDR	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
THREE CONDUCTORS WITH GROUNDING CONDUCTOR								
22765	8	7	3	10	0.045	0.060	0.660	330
22766	6	7	3	8	0.045	0.060	0.740	465
22767	4	7	3	8	0.045	0.080	0.890	685
22768	2	7	3	6	0.045	0.080	1.020	1015
22769	1	19	3	6	0.055	0.080	1.150	1270
22770	1/0	19	3	6	0.055	0.080	1.250	1500
22771	2/0	19	3	6	0.055	0.080	1.340	1820
22772	3/0	19	3	4	0.055	0.080	1.440	2250
22773	4/0	19	3	4	0.065	0.110	1.590	2720
22774	250	37	3	4	0.065	0.110	1.780	3310
22775	350	37	3	3	0.065	0.110	2.010	4430
22776	500	37	3	2	0.065	0.110	2.280	6150
22777	750	61	3	1	0.080	0.140	2.810	8980
22778	1000	61	3	1/0	0.080	0.140	3.160	11700

NOTE: Also available in four conductors, consult factory for details.

F

600 VOLT - XHHW-2 INSULATION, CPE JACKET 90°C WET OR DRY - TYPE TC - UL

Construction

Conductors:
- Class "B" annealed tinned copper conforming to ASTM B-33 and B-8. Bare copper may be supplied. **Please specify when ordering.**

Insulation:
- A chemically Crosslinked Polyethylene (XLP) shall be applied concentrically over each conductor and shall conform to (UL) Standard 44, for Type XHHM2 (Class XL, Table 50.231) and ICEA S-95-658 Part 3.

Color Code:
- The insulation shall be colored Black with number print.

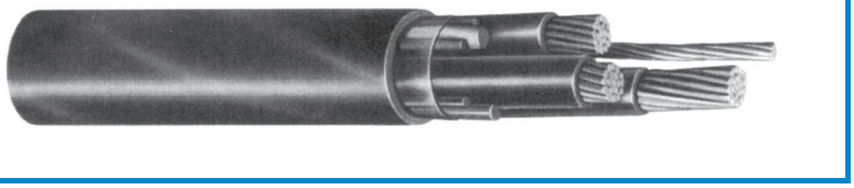
Grounding Conductor:
- Class B stranded tinned or bare copper. Please specify when ordering.

Cable Assembly:
- The applicable number of conductors shall be cabled together with the grounding conductor and fillers (only as necessary) to form a round core. A clear mylar tape is wrapped over the core.

Outer Jacket:
- A Black flame, moisture, oil, and sunlight resistant Chlorinated Polyethylene (CPE) jacket meeting the requirements of UL 1277 Table 11.1 shall be applied concentrically overall. The physical properties of the jacket shall comply with Table 50.28 of UL 1581. A high strength nylon rip cord may be placed under the jacket to facilitate stripping of the jacket on cables with jackets of 80 mils or less. **Please specify when ordering.**

Testing:
- These cables shall be tested physically and electrically in accordance with procedures as outlined by Underwriters' Laboratories, Inc. Standard 1277 for Type TC Power and Control Tray Cables.

Use:
- Suitable for use in cable trays, raceways, direct burial or supported by a messenger for use at voltage ratings not exceeding 90°C in wet or dry locations.
- These cables shall conform to (UL) Type TC Power and Control Tray Cables and National Electrical Code, Articles 336, 392, 500 and 501.
- These cables pass the IEEE 383 70,000 BTU Flame Test, the IEEE 1202/FT4 Flame Test, and the ICEA T-29 520 210,000 BTU Flame Test. Cables pass a -40°C Cold Bend Test.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'RS	STRAND	INSULATION WALL	GROUNDING COND'R	JACKET		NOMINAL WEIGHT
	AWG/MCM			(MILS)	(AWG)	WALL (MILS)	DIAMETER (INCHES)	LBS/MFT
23700	8	3	7	45	10	60	0.660	318
23701	8	4	7	45	10	60	0.725	410
23702	6	3	7	45	8	60	0.740	454
23703	6	4	7	45	8	60	0.820	627
23704	4	3	7	45	8	80	0.885	660
23705	4	4	7	45	8	80	0.970	888
23706	2	3	7	45	6	80	1.010	966
23707	2	4	7	45	6	80	1.120	907
23708	1	3	19	55	6	80	1.125	1254
23709	1	4	19	55	6	80	1.260	1603
23710	1/0	3	19	55	6	80	1.210	1503
23711	1/0	4	19	55	6	80	1.340	1923
23712	2/0	3	19	55	6	80	1.310	1811
23713	2/0	4	19	55	6	80	1.450	2337
23714	3/0	3	19	55	4	80	1.420	2240
23715	3/0	4	19	55	4	80	1.575	2900
23716	4/0	3	19	55	4	80	1.540	2705
23717	4/0	4	19	55	4	110	1.775	3629
23718	250	3	37	65	4	110	1.745	3273
23719	250	4	37	65	4	110	1.935	4249
23720	350	3	37	65	3	110	1.965	4389
23721	350	4	37	65	3	110	2.185	5809
23722	500	3	37	65	2	110	2.245	6094
23723	500	4	37	65	2	110	2.495	8406

F

VFD POWER CABLE

FOR LOW VOLTAGE VARIABLE FREQUENCY DRIVE SYSTEMS
XLPE INSULATION • PVC JACKET SHIELDED 600 VOLT

Construction

Conductors:
- Class B, soft drawn, bare copper per ASTM B3 and ASTM B8.

Insulation:
- Heat and moisture resistant, cross-linked thermo-setting polyethylene (XLPE) meeting the requirements of UL44. The insulation is suitable for use in wet or dry locations at a conductor temperature not exceeding 90°C for normal operation. The insulation thickness is in accordance with Table 15.3 of UL 44. Single conductors pass VW-1 flame test.

Grounding Conductors:
- Class B stranded, soft drawn, bare copper per ASTM B3 and ASTM B8. The grounding conductor is sectioned into three equal sections.

Circuit Identification:
- Black conductors with number print: 1 - ONE, 2 - TWO & 3 - THREE.

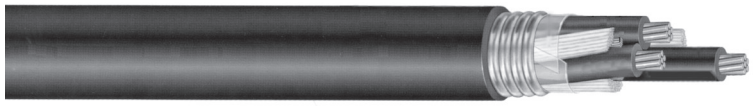
Assembly:
- The insulated circuit conductors and three bare grounding conductors are cabled together with non-hygroscopic fillers as needed. The cabled core is wrapped with a binder tape. A corrugated copper shield is applied to the taped core. A PVC jacket is applied to the shielded core.

Shield:
- 5 mil thick copper tape (10 mil for 250, 350 and 500 KCMIL versions) corrugated and longitudinally applied with a minimum overlap of 15%.

Overall Jacket:
- Heat and moisture resistant, black polyvinyl chloride (PVC) meeting the requirements of UL 1581. The thickness is in accordance with Table 11.3 of UL 1277.

Surface Marking:
- The overall jacket will have the following information printed: "number & size of conductor" XHHW-2 TYPE TC "number and size of grounding conductor" VFD POWER CABLE UL 600V, SUN RES DIR BUR.

Special Installation Practices:
- It is highly recommended that proper cable fittings be used to terminate the cables at junction boxes, control centers, panel boards and enclosures.



CUSTOM CATALOG NUMBER	NUM. OF CONDUCTORS/ SIZE (AWG.)	NUM. OF GROUNDS/ SIZE (AWG.)	NOM. INSUL. THICKNESS	DIAMETER OVER SHIELD	NOMINAL O.D.	APPROX. CABLE WT.
			INCHES	INCHES	iNCHES	LBS/MFT
25601	16/3	18/3	.030	0.32	0.43	92
25602	14/3	18/3	.030	0.35	0.46	144
25603	12/3	18/3	.030	0.39	0.51	176
25604	10/3	16/3	.030	0.45	0.59	254
25605	8/3	14/3	.045	0.58	0.73	390
25606	6/3	12/3	.045	0.66	0.78	263
25607	4/3	10/3	.045	0.76	0.93	769
25608	2/3	8/3	.045	0.89	1.11	1154
25609	1/3	8/3	.055	1.05	1.28	1427
25610	1/0-3	6/3	.055	1.15	1.37	1764
25611	2/0-3	6/3	.055	1.21	1.43	2077
25612	3/0-3	4/3	.055	1.32	1.55	2599
25613	4/0-3	4/3	.055	1.43	1.66	3093
25614	250/3 MCM	4/3	.065	1.57	1.88	3791
25615	350/3 MCM	2/3	.065	1.81	2.00	5020
25616	500/3 MCM	1/0-3	.065	2.08	2.30	7012
25617	750/3 MCM	2/0-3	.080	2.51	2.93	10214

* Insulation thicknesses shown are 600 volt. 2000 volt insulation thicknesses can also be supplied on special order.

* Can also supply Ethylene propylene rubber (EPR) insulation, CPE or TPE jacket. Please specify at time of order.

* Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

Applications:
- These are three conductor, 600 volt, Variable Frequency Drive cables with cross-linked thermosetting polyethylene (XLPE) insulation, three bare grounding conductors (one in each interstice), a corrugated copper shield and an overall polyvinyl chloride (PVC) jacket. These cables are UL type TC rated.
- The VFD Power Cables are designed for use with low voltage (600 volt) AC motors controlled for speed by modern PWM (pulse width modulated) inverters. These PWM inverters require properly designed power cables to prevent RF (radio frequency) electrical signals from causing stray electrical noise or malfunction of the motor.

Ratings:
- UL Standard 44
- UL Standard 1277
- IEEE 1202 (70,000 BTU/HR) Flame Test
- ICEA T-29-520 (210,000 BTU/HR) Flame Test
- MSHA approved

F

LOW-SMOKE, ZERO HALOGEN (LSZH), 600 VOLTS, 3 AND 4 CONDUCTOR

XLPO/LSZH, LOW VOLTAGE POWER, UNSHIELDED 600V, UL TYPE TC-LS-ER — METHOD 4 COLOR CODE

Construction

Conductor:
- 14 AWG thru 750 kcmil bare annealed copper per ASTM B3.
- Class B3 stranding per ASTM B8.

Insulation.
- Lead-free, flame-retardant, low-smoke Cross-Linked Polyolefin (XLPO).
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink.

Ground:
- Uninsulated bare annealed copper per ASTM B3.
- Class B stranding per ASTM B8.

Jacket:
- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH).

Print:
- AWG XLPO/LSZH (UL) TYPE TC-LS-ER XHHW-2 CDRS 90°C WET OR DRY 600V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK.

Options:
- Class C stranding.
- Tinned copper conductor.
- E-1 or E-2 Color Code (specify).
- Insulated ground conductors.
- Overall shielded multi conductors.
- Other constructions available upon request.

Applications:
- In free air, raceways, aerial or direct burial.
- In wet or dry locations.
- Permitted for use in Class I, Division 2 Industrial hazardous locations per NEC.
- Permitted for Exposed Run (ER) use in accordance with the NEC.

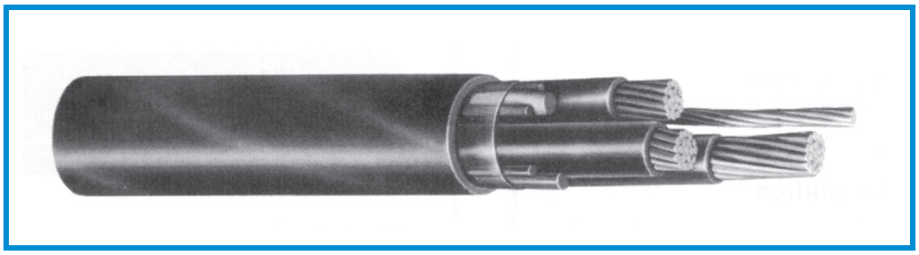
Features:
- Rated at 90°C wet or dry.
- Ripcord applied to all cables with jacket thickness of 60 mils or less.
- Excellent physical, thermal and electrical properties.
- Excellent moisture resistance.
- Excellent resistance to crush, compression and impact.
- Chemical-resistant.
- Low coefficient of friction for easy pulling.
- Sunlight- and weather-resistant.
- Meets cold bend test at -30°C.
- Low-Smoke, Zero-Halogen jacket is environmentally safe.
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire.

Compliances:
Industry Compliances:
- UL 44 Type XHHW-2.
- UL 1277 Type TC-LS-ER, UL File #57179.
- UL 1581.
- ROHS Compliant.

Flame Test Compliances:
- UL 1581.
- UL 1277.
- UL 1685.
- IEEE 1202.

Other Compliances:
- EPA 40 CFR, Part 261 for leachable lead content per TCLP.
- OSHA Acceptable.

Packaging:
- Material out to length and shipped on non-returnable wood reels.



CUSTOM CATALOG NUMBER	NO. OF COND'RS	SIZE AWG/MCM	GROUND WIRE SIZE (AWG)	MIN. AVG. INSULATION THICKNESS (INCHES)	MIN. AVG. JACKET THICKNESS (INCHES)	NOMINAL CABLE O.D. (INCHES)	COPPER WEIGHT LBS./ 1000 FT.	NET WEIGHT LBS./ 1000 FT.
14 AWG — 750 kcmil MULTI CONDUCTORS								
18340*	3	14	14	0.030	0.045	0.430	55	118
18341*	3	12	12	0.030	0.045	0.480	87	160
18342*	3	10	10	0.030	0.045	0.480	124	194
18350	3	8	10	0.045	0.060	0.655	190	314
18351*	4	8	10	0.045	0.060	0.720	242	393
18352	3	6	8	0.045	0.060	0.740	297	456
18353*	4	6	8	0.045	0.060	0.790	384	561
18354	3	4	8	0.045	0.080	0.880	442	642
18355*	4	4	8	0.045	0.080	0.950	578	822
18356	3	2	6	0.045	0.080	1.010	703	979
18357*	4	2	6	0.045	0.080	1.090	919	1235
18358*	3	1	6	0.055	0.080	1.120	872	1021
18359*	4	1	6	0.055	0.080	1.235	1136	1521
18360	3	1/0	6	0.055	0.080	1.225	1069	1439
18361*	4	2/0	6	0.055	0.080	1.330	1413	1820
18362	3	2/0	6	0.055	0.080	1.300	1340	1720
18363*	4	2/0	6	0.055	0.080	1.440	1760	2208
18364*	3	3/0	4	0.055	0.080	1.420	1717	2176
18365*	4	3/0	4	0.055	0.080	1.570	2245	2788
18366	3	4/0	4	0.055	0.080	1.540	2130	2614
18367*	4	4/0	4	0.055	0.110	1.790	2796	3495
18368*	3	250	4	0.065	0.110	1.760	2494	3184
18369*	4	250	4	0.065	0.110	1.915	3282	4019
18370	3	350	3	0.065	0.110	1.960	3474	4187
18371*	4	350	3	0.065	0.110	2.165	4577	5436
18372	3	500	2	0.065	0.110	2.245	4934	5847
18373*	4	500	2	0.065	0.110	2.475	6509	7607
18374*	3	750	1	0.080	0.140	2.810	7278	9145
18375*	4	750	1	0.080	0.140	3.115	9712	11805

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

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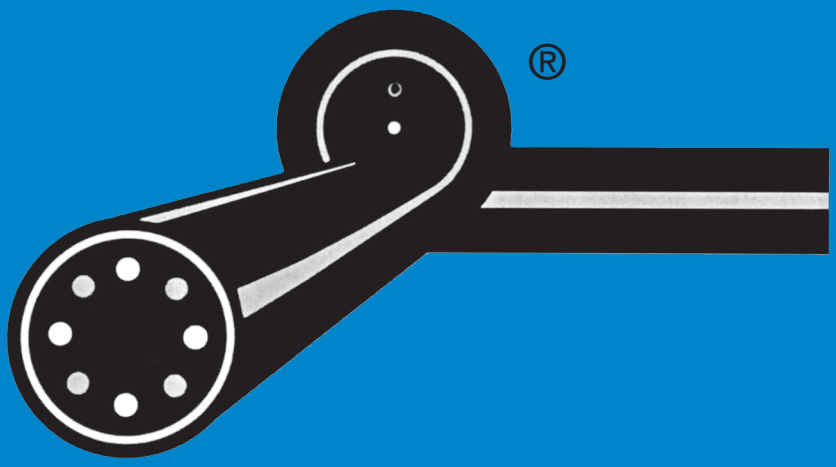
PORTABLE CORD



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PORTABLE CORD

TYPE S 600 VOLT & TYPE SJ 60°C 300 VOLT UL/CSA

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-174.

Insulation:
- Color coded rubber.

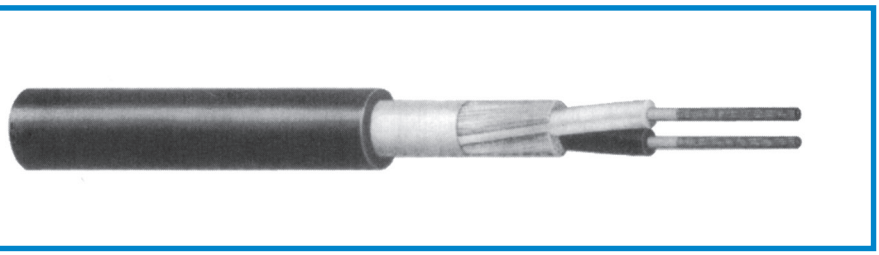
Jacket:
- Black Rubber.
- Temperature Range: -40°C to +60°C.
- Voltage Rating: 300 volts Type SJ. 600 volts Type S.

Applications:
- Portable lighting.
- Battery chargers.
- Garage door openers.
- Small tools and associated equipment.
- Washing machines.
- Refrigerators.
- Small motors.
- Sound equipment.

Features:
- Good flexibility in low temperatures.
- Suitable for use in conditions where the cord is not subject to acid, grease, oil, or solvents.

Industry Approvals:
- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49 where applicable.
- JC 580.

Packaging:
- 250 ft.
- Other put-ups available, consult factory.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS	LBS/MFT
RUBBER JACKET TYPE S 600 VOLT BLACK + 60°C UL-CSA*							
9070	18/2	16/30	0.030	0.060	0.350	10	68
9071	18/3	16/30	0.030	0.060	0.370	10	81
9072	18/4	16/30	0.030	0.060	0.400	7	97
9073	16/2	26/30	0.030	0.060	0.370	13	79
9074	16/3	26/30	0.030	0.060	0.390	13	96
9075	16/4	26/30	0.030	0.060	0.430	10	116
9076	14/2	41/30	0.045	0.080	0.510	18	137
9077	14/3	41/30	0.045	0.080	0.540	18	164
9078	14/4	41/30	0.045	0.080	0.580	15	199
9079	12/2	65/30	0.045	0.095	0.590	25	175
9080	12/3	65/30	0.045	0.095	0.620	25	222
9081	12/4	65/30	0.045	0.095	0.670	20	262
9082	10/2	104/30	0.045	0.095	0.640	30	232
9083	10/3	104/30	0.045	0.095	0.670	30	282
9084	10/4	104/30	0.045	0.095	0.730	25	352
RUBBER JACKET TYPE SJ 300 VOLT BLACK + 60°C UL-CSA							
9101	18/2	16/30	0.030	0.030	0.290	10	45
9102	18/3	16/30	0.030	0.030	0.310	10	60
9103	18/4	16/30	0.030	0.030	0.320	7	70
9104	16/2	26/30	0.030	0.030	0.315	13	60
9105	16/3	26/30	0.030	0.030	0.330	13	75
9106	16/4	26/30	0.030	0.030	0.365	10	90
9107	14/2	41/30	0.030	0.030	0.340	18	75
9108	14/3	41/30	0.030	0.030	0.365	18	105
9109	14/4	41/30	0.030	0.030	0.395	15	120
9110	12/2	65/30	0.030	0.045	0.410	25	110
9111	12/3	65/30	0.030	0.045	0.430	25	140
9112	12/4	65/30	0.030	0.045	0.470	20	180
9113	10/2	104/30	0.045	0.060	0.550	30	185
9114	10/3	104/30	0.045	0.060	0.590	30	240
9115	10/4	104/30	0.045	0.060	0.655	25	305

Color Code:
2 conductors	Black, White
3 conductors	Black, White, Green
4 conductors	Black, White, Red, Green

* NOTE: Customer must specify if CSA is needed on Type S. Normally UL only.

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TYPE SJOOW 90°C 300 VOLT UL/CSA

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-174.

Insulation:
- Color coded 90°C EPDM.

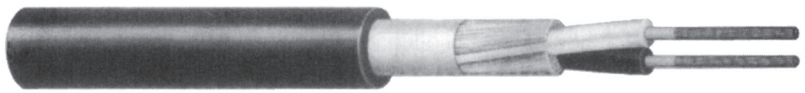
Jacket:
- Black thermosetting.
- Temperature Range: -40°C to +90°C.
- Voltage Rating: 300 volts.

Applications:
- Portable tools and equipment.
- Portable appliances.
- Small motors and associated machinery.

Features:
- Excellent resistance to oil and moisture.
- Good tensile strength, elongation and aging characteristics.
- High flexibility.
- Safety colored.
- Excellent abrasion resistance.
- Water Resistant.
- UL Listed and CSA Certified for indoor and outdoor use.

Industry Approvals:
- UL Flexible Cord - UL 62.
- CSA Flexible Cord - C22.2-49 where applicable.
- JC 580.
- MSHA approved.

Packaging:
- 250 ft.
- Other put-ups available, consult factory.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS	LBS/MFT
THERMOSETTING JACKET TYPE SJOOW 300 VOLT BLACK + 90° UL-CSA							
9050	18/2	16/30	0.030	0.030	0.290	10	50
9051	18/3	16/30	0.030	0.030	0.310	10	65
9052	18/4	16/30	0.030	0.030	0.340	7	70
9053	16/2	26/30	0.030	0.030	0.310	13	60
9054	16/3	26/30	0.030	0.030	0.330	13	75
9055	16/4	26/30	0.030	0.030	0.370	10	95
9056	14/2	41/30	0.030	0.030	0.340	18	75
9057	14/3	41/30	0.030	0.030	0.365	18	105
9058	14/4	41/30	0.030	0.030	0.415	15	125
9059	12/2	65/30	0.030	0.045	0.410	25	105
9060	12/3	65/30	0.030	0.045	0.430	25	140
9061	12/4	65/30	0.030	0.045	0.475	20	190
9063	10/3	104/30	0.045	0.060	0.610	30	240
9064	10/4	104/30	0.045	0.060	0.665	25	325

Color Code:
2 conductors	Black, White
3 conductors	Black, White, Green
4 conductors	Black, White, Red, Green

NOTE: This product formally known as "SJO".

G

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PORTABLE CORD

TYPE SOOW - 90°C 600 VOLT UL/CSA

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-174.

Insulation:
- Color coded 90°C EPDM.

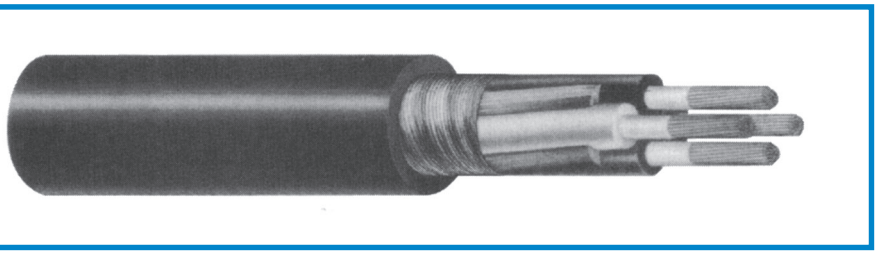
Jacket:
- Black CPE.
- Temperature Range: -40°C to +90°C.
- Voltage Rating: 600 volts.

Applications:
- Portable tools and equipment.
- Portable appliances.
- Small motors and associated machinery.

Features:
- Excellent resistance to oil and moisture.
- Good tensile strength, elongation and aging characteristics.
- High flexibility.
- Excellent abrasion resistance.
- Water Resistant.
- UL Listed and CSA Certified for indoor and outdoor use.

Industry Approvals:
- UL Flexible Cord - UL 62, 18 thru 10 AWG.
- CSA Flexible Cord - C22.2-49 where applicable.
- OSHA acceptable.
- MSHA approved.
- JC 580

Packaging:
- 250 ft.
- Other put-ups available, consult factory.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	AMPS	LBS/MFT
THERMOSETTING JACKET TYPE SOOW 600 VOLT BLACK +90°C UL CSA							
9012	18/2	16/30	0.030	0.060	0.345	10	70
9013	18/3	16/30	0.030	0.060	0.365	10	80
9014	18/4	16/30	0.030	0.060	0.390	7	95
9015	16/2	26/30	0.030	0.060	0.370	13	80
9016	16/3	26/30	0.030	0.060	0.390	13	95
9017	16/4	26/30	0.030	0.060	0.425	10	115
9018	14/2	41/30	0.045	0.060	0.500	18	135
9019	14/3	41/30	0.045	0.080	0.530	18	170
9020	14/4	41/30	0.045	0.080	0.570	15	205
9021	12/2	65/30	0.045	0.095	0.575	25	195
9022	12/3	65/30	0.045	0.095	0.600	25	225
9023	12/4	65/30	0.045	0.095	0.650	20	270
9024	10/2	104/30	0.045	0.095	0.625	30	250
9025	10/3	104/30	0.045	0.095	0.660	30	290
9026	10/4	104/30	0.045	0.095	0.710	25	355
9027**	8/2	65/26	0.050	0.095	0.675	40	315
9028**	8/3	65/26	0.050	0.110	0.720	40	450
9029**	8/4	65/26	0.050	0.125	0.780	35	650
9030**	8/5	65/26	0.050	0.125	0.860	28	700
9031**	6/2	101/26	0.050	0.095	0.750	55	405
9032**	6/3	101/26	0.050	0.125	0.800	55	700
9033**	6/4	101/26	0.050	0.140	0.890	45	890
9034**	6/5	101/26	0.050	0.140	0.945	36	1030
9035**	4/2	119/25	0.050	0.110	0.890	70	500
9036**	4/3	119/25	0.050	0.140	0.940	70	950
9037**	4/4	119/25	0.050	0.155	1.010	60	1150
9038**	4/5	119/25	0.050	0.170	1.135	48	1400
9039**	2/2	133/.0211	0.055	0.110	1.070	80	713
9040**	2/3	133/.0211	0.055	0.170	1.090	80	1330
9041**	2/4	133/.0211	0.055	0.170	1.170	80	1650
9042**	2/5	133/.0211	0.055	0.170	1.435	65	2000

Color Code:

2 conductors	Black, White
3 conductors	Black, White, Green
4 conductors	Black, White, Red, Green
5 conductors	Black, White, Red, Green, Orange

* Add "W" to part number for white.

** **#8 AWG and larger not UL listed or CSA certified — rated type SO only.**
We can offer UL & CSA on #8 AWG and larger on Special Order.
Check factory for availability and pricing. Special Order.

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MULTICONDUCTOR PORTABLE CABLE

TYPE SOOW - 90°C, 600 VOLT - UL/CSA

Construction

Conductor:
- Soft drawn annealed bare copper wires.

Insulation:
- 90°C EPDM.
- Conductors are color coded by use of solid colors and tracers, where required, in accordance with Table K-1 of ICEA.
- Color Code: See Chart #25.

Conductor Assembly:
- Cabled with suitable fillers to form a round uniform cable core.

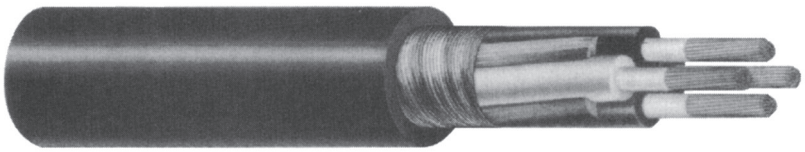
Jacket:
- A Black 90°C heavy-duty thermosetting polymer applied concentrically over the conductor assembly with suitable binder and separator. (-40°C to +90°C)

Testing:
- All tests and inspections are in accordance with UL Standard 62 for "Flexible Cord and Fixture Wire" including visual, dimensional, dielectric and physical tests.

Description:
- Type SOOW multiconductor cables, rated 90°C, offer increased application possibilities, particularly where higher ambient temperatures are encountered. High quality construction and manufacturing control assure long service life. They are ideal for standard control applications, wiring production line push button controls, systems, controls, alarms, etc..

Features:
- UL Flexible Cords - UL Subject 62.
- CSA Flexible Cords - C22.2-49.
- MSHA Approved.
- JC 580.
- Abrasion, oil, acid and grease resistant.
- Heavy-Duty jacket.
- Rated 90°C - 600 volts.
- Higher ambient temperature applications.
- Water Resistant, Flame Resistant, Ozone Resistant.
- UL Listed and CSA Certified for indoor and outdoor use.

Practical Applications:
- Industrial and utility control applications.
- Signal circuits, and other general control uses in industrial plants, breweries, theaters, steel mills, process facilities and construction sites.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	AMPS[1]	LBS/MFT
9120	18	5	16/30	0.030	0.080	0.465	5.6	125
9121	18	6	16/30	0.030	0.080	0.495	5.6	140
9122	18	7	16/30	0.030	0.080	0.500	5.6	155
9123	18	8	16/30	0.030	0.080	0.530	4.9	170
9124	18	10	16/30	0.030	0.080	0.615	4.9	215
9125	18	12	16/30	0.030	0.080	0.665	3.5	230
9126	18	14	16/30	0.030	0.095	0.695	3.5	255
9127	18	16	16/30	0.030	0.095	0.705	3.5	300
9128	18	18	16/30	0.030	0.095	0.760	3.5	330
9129	18	20	16/30	0.030	0.095	0.795	3.5	375
9130	18	24	16/30	0.030	0.095	0.901	3.1	430
9133	18	30	16/30	0.030	0.095	0.950	3.1	510
9134	18	36	16/30	0.030	0.110	1.050	2.8	650
9132	18	37	16/30	0.030	0.110	1.060	2.8	620
9136	18	44	16/30	0.030	0.110	1.168	2.5	780
9137	18	52	16/30	0.030	0.125	1.215	2.5	795
9138	18	60	16/30	0.030	0.125	1.315	2.5	945
9150	16	5	26/30	0.030	0.080	0.495	8	160
9151	16	6	26/30	0.030	0.080	0.520	8	175
9152	16	7	26/30	0.030	0.080	0.550	8	190
9153	16	8	26/30	0.030	0.080	0.575	7	215
9154	16	9	26/30	0.030	0.080	0.630	7	240
9155	16	10	26/30	0.030	0.080	0.650	5	270
9156	16	12	26/30	0.030	0.095	0.690	5	305
9157	16	14	26/30	0.030	0.095	0.750	5	345
9158	16	16	26/30	0.030	0.095	0.790	5	370
9159	16	18	26/30	0.030	0.095	0.795	5	415
9160	16	20	26/30	0.030	0.095	0.810	5	450
9162	16	24	26/30	0.030	0.095	0.925	4.5	555
9162-26CDR	16	26	26/30	0.030	0.110	0.965	4.5	600
9166	16	30	26/30	0.030	0.110	1.053	4.5	695
9175	16	36	26/30	0.030	0.110	1.125	4	800
9167	16	37	26/30	0.030	0.110	1.185	4	815
9169	16	44	26/30	0.030	0.125	1.294	4	1040
9170	16	52	26/30	0.030	0.125	1.346	4	1190
9171	16	60	26/30	0.030	0.125	1.424	4	1340

1 Values shown are for current carrying conductors. A grounding conductor, or one which carries only the unbalance current from other conductors, is NOT counted in determining current carrying capacity.

NOTE: This product formally called "Type SO" Control.

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MULTICONDUCTOR PORTABLE CABLE

TYPE SOOW - 90°C, 600 VOLT, UL/CSA

Construction

Conductor:
- Soft drawn annealed bare copper wires.

Insulation:
- 90°C EPDM.
- Conductors are color coded by use of solid colors and tracers, where required, in accordance with Table K-1 of ICEA.
- Color Code: See Chart #25.

Conductor Assembly:
- Cabled with suitable fillers to form a round uniform cable core.

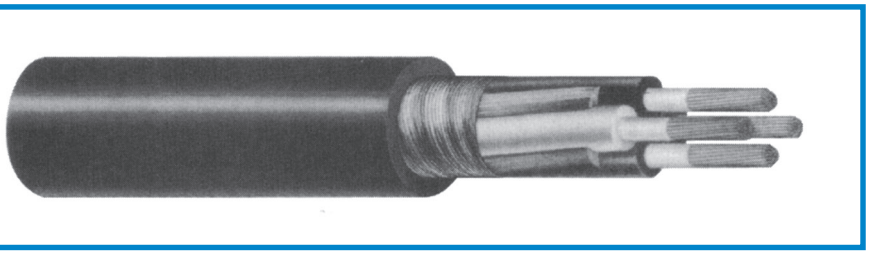
Jacket:
- A Black 90°C heavy-duty thermosetting polymer applied concentrically over the conductor assembly with suitable binder and separator. (-40°C to +90°C)

Testing:
- All tests and inspections are in accordance with UL Standard 62 for "Flexible Cord and Fixture Wire" including visual, dimensional, dielectric and physical tests.

Description:
- Type SOOW multiconductor cables, rated 90°C, offer increased application possibilities, particularly where higher ambient temperatures are encountered. High quality construction and manufacturing control assure long service life. They are ideal for standard control applications, wiring production line push button controls, systems, controls, alarms, etc..

Features:
- UL Flexible Cords - UL Subject 62.
- CSA Flexible Cords - C22.2-49.
- MSHA Approved.
- JC 580.
- Abrasion, oil, acid and grease resistant.
- Heavy-Duty jacket.
- Rated 90°C - 600 volts.
- Higher ambient temperature applications.
- Water Resistant, Flame Resistant, Ozone Resistant.
- UL Listed and CSA Certified for indoor and outdoor use.

Practical Applications:
- Industrial and utility control applications.
- Signal circuits, and other general control uses in industrial plants, breweries, theaters, steel mills, process facilities and construction sites.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	AMPS[1]	LBS/MFT
9178	14	5	41/30	0.045	0.095	0.655	12	265
9179	14	6	41/30	0.045	0.095	0.710	12	310
9180	14	7	41/30	0.045	0.095	0.710	12	340
9181	14	8	41/30	0.045	0.095	0.760	10.5	380
9182	14	9	41/30	0.045	0.095	0.830	10.5	410
9183	14	10	41/30	0.045	0.095	0.830	10.5	440
9184	14	12	41/30	0.045	0.095	0.870	7.5	475
9185	14	14	41/30	0.045	0.110	0.965	7.5	585
9186	14	16	41/30	0.045	0.110	1.050	7.5	660
9187	14	18	41/30	0.045	0.110	1.100	7.5	720
9190	14	20	41/30	0.045	0.110	1.155	7.5	780
9191	14	24	41/30	0.045	0.125	1.260	6.7	980
9192	14	30	41/30	0.045	0.125	1.380	6.7	1120
9193	14	37	41/30	0.045	0.125	1.480	6	1330
9193-40CDR	14	40	41/30	0.045	0.125	1.540	6	1460
9194	14	44	41/30	0.045	0.125	1.655	7.5	1670
9195	14	52	41/30	0.045	0.140	1.730	7.5	1965
9196	14	60	41/30	0.045	0.140	1.865	7.5	2225
9200	12	5	65/30	0.045	0.095	0.710	16	325
9201	12	6	65/30	0.045	0.095	0.770	16	437
9202	12	7	65/30	0.045	0.095	0.825	14	410
9203	12	8	65/30	0.045	0.095	0.825	14	460
9204	12	9	65/30	0.045	0.110	0.900	14	505
9205	12	10	65/30	0.045	0.110	1.000	14	580
9206	12	12	65/30	0.045	0.110	1.010	10	650
9207	12	14	65/30	0.045	0.110	1.080	10	715
9208	12	16	65/30	0.045	0.110	1.135	10	825
9210	12	18	65/30	0.045	0.110	1.150	10	895
9211	12	20	65/30	0.045	0.125	1.170	10	965
9212	12	24	65/30	0.045	0.125	1.453	9	1240
9218	12	26	65/30	0.045	0.125	1.453	9	1290
9211-30CDR	12	30	65/30	0.045	0.125	1.500	9	1450
9213	12	36	65/30	0.045	0.125	1.653	8	1670
9219	12	37	65/30	0.045	0.125	1.685	8	1795
9214	12	44	65/30	0.045	0.140	1.885	7	2000
9215	12	52	65/30	0.045	0.140	1.970	7	2550
9216	12	60	65/30	0.045	0.140	2.085	7	2890
9220	10	5	104/30	0.045	0.095	0.770	20	465
9221	10	6	104/30	0.045	0.095	0.875	20	505
9222	10	7	104/30	0.045	0.095	0.865	17.5	714
9223	10	8	104/30	0.045	0.095	0.940	17.5	625
9224	10	10	104/30	0.045	0.110	1.025	17.5	755
9225	10	12	104/30	0.045	0.110	1.070	12.5	850
9225-16CDR	10	16	104/30	0.045	0.125	1.230	12.5	1140
9229	10	20	104/30	0.045	0.125	1.260	12.5	1445
9226	10	24	104/30	0.045	0.125	1.592	15	1825
9227	10	30	104/30	0.045	0.140	1.682	15	2240

1 Values shown are for current carrying conductors. A grounding conductor, or one which carries only the unbalance current from other conductors, is NOT counted in determining current carrying capacity.

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300 VOLT, 600 VOLT

Construction

Conductors:
- #18 AWG through #10 AWG, stranded.
- Bare (standard).
- Single conductor or multi conductor.
- Shielded or unshielded.

Common Insulations:
- PVC, Rubber, EPDM, TPE, Polyurethane, Thermosetting.

Common Jackets:
- PVC, Rubber, Neoprene, TPE, Polyurethane, Thermosetting.

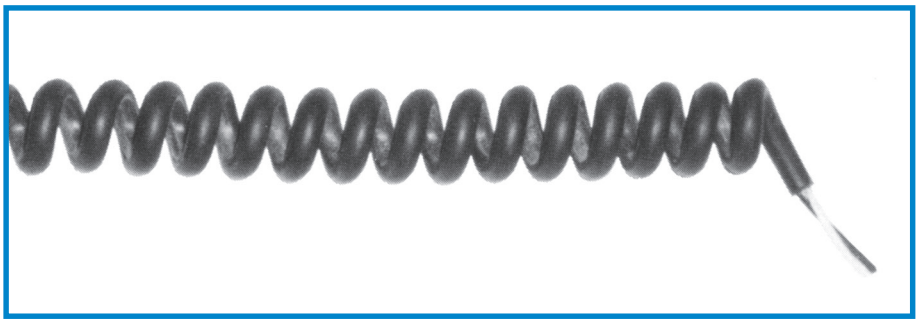
Applications:
- Industrial.
- Military.
- Communications.
- Commercial.
- Medical.
- Trucking and transportation.

Standard Lengths:

Retracted	Extended
1 Ft.	5 Ft.
2 Ft.	10 Ft.
3 Ft.	15 Ft.
4 Ft.*	**20 Ft.**

** Standard Stock Lengths.*

Lengths up to 50 feet extended in multi conductor can be made upon request.



We Customize All Constructions And Lengths Of Retractile Cords.

Some of the most common types are SJOOW, SJEOOW, SOOW and SEOOW.

You specify lengths and type.

NOTE: For sizes larger than 10AWG or weight over 35 lbs., we suggest **horizontal** applications only, unless properly supported.

300 VOLT CORDS

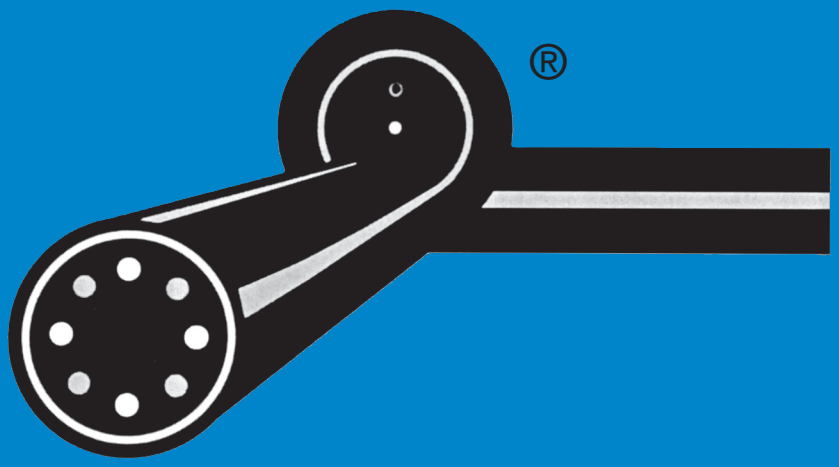
SIZE	CUSTOM CATALOG NO.
18/2	9050-RETR
18/3	9051-RETR
18/4	9052-RETR
16/2	9053-RETR
16/3	9054-RETR
16/4	9055-RETR

600 VOLT CORDS

SIZE	CUSTOM CATALOG NO.
18/2	9012-RETR
18/3	9013-RETR
18/4	9014-RETR
16/3	9016-RETR
16/4	9017-RETR
16/5	9150-RETR
16/6	9151-RETR
14/2	9018-RETR
14/3	9019-RETR
14/4	9020-RETR
12/3	9022-RETR
12/4	9023-RETR
10/3	9025-RETR
10/4	9026-RETR

G

INTERLOCKED ARMOR



THREE CONDUCTOR, EPR INSULATION, AIA/PVC JACKET, SHIELDED, ARMORED, 5kV/8KV, UL TYPE MV-105 OR MC, 133%/100% INS. LEVELS

Construction

Description
Conductor:
- 6 AWG thru 1000 kcmil bare, compact copper Class B strand.

Extruded Strand Shield:
- Thermoset semi-conducting extruded stress control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers.

Extruded Insulation Shield:
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Shield:
- 5 mil annealed copper tape with a minimum 25% overlap.

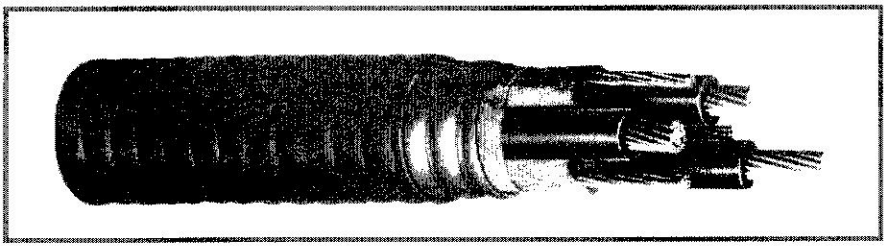
Ground:
- Annealed bare copper Class B stranding per ASTM B8.

Armor:
- Aluminum Interlocked Armor (AIA).

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Applications:
- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary.
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work.
- May be used in cable trays or on approved support in protected areas.

Features:
- Rated at 105°C wet or dry.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical- and radiation-resistant.
- Excellent crush resistance.
- Cost-effective alternative to installations in conduit.
- Meets cold bend test at -25°C.
- Sunlight resistant for CT use.



CUSTOM CABLE CATALOG NUMBER	COND. SIZE AWG/kcmil	NUMBER OF COND.	GROUND WIRE SIZE AWG	NOM. DIA. (OVER) ARMOR INCHES	NOM. ABLE O.D. INCHES	COPPER WEIGHT lbs./1000 ft.	NET WEIGHT W/AL ARMOR lbs./1000 ft.
THREE CONDUCTOR – .115 MIL EPR INSULATION, 5kV, 133% INS. LEVEL OR 8kV, 100% INS. LEVEL							
133510	6	3	6	1.51	1.66	4.59	1141
133520	4	3	6	1.60	1.73	666	1301
133530	2	3	6	1.63	1.76	863	1810
133540	1/0	3	4	1.84	1.96	1300	2366
133550	2/0	3	4	1.87	2.00	1571	2726
133570	4/0	3	3	2.14	2.26	2370	3707
133580	250	3	3	2.25	2.40	2746	4093
133590	350	3	2	2.39	2.55	3755	4531
133600	500	3	1	2.68	2.84	5258	7320
133610	750	3	1/0	3.10	3.25	7672	9939
133620	1000	3	1/0	3.41	3.56	10132	12948

Dimensions and weights are nominal; subject to industry tolerances.

Compliances:
- National Electric Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC-74.
- ASC CS8.
- UL listed as Type MV-105.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- IEEE 383 (70,000 BTU/hr.).
- UL 1581 (70,000 BTU/hr.).
- ICEA T-29-520 (210,000 BTU/hr.).
- ICEA T-30-520 (70,000 BTU/hr.).
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method.
- OSHA acceptable.

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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INTERLOCKED ARMOR

600 VOLT MULTI-CONDUCTOR, CROSSLINKED POLYETHYLENE (XHHW-2) INSULATED INTERLOCKED ARMOR, PVC JACKETED UL TYPE MC WITH GROUNDING CONDUCTOR

Construction

Construction:

- Conductors are Class B stranded copper type XHHW-2 color coded per Method 4 (all black with number codes). Fillers are non-hygroscopic and non-wicking. Core binder is single faced rubber tape. Armor is positively interlocked aluminum (Galvanized steel is available on request). Jacket is flame retardant, sunlight, oil and water resistant black polyvinyl chloride.

Grounding Conductors:

- Grounding conductors shall comply with UL requirements. In 600 volt cables to ICEA Standard where grounding conductors are required they shall meet ICEA-NEMA requirements. Grounding conductors shall be uninsulated.

Features:

- Power and lighting circuits in manufacturing and processing plants.
- Secondary feeders in industrial and commercial distribution systems.
- Power supply to station auxiliaries in electrical power stations and substations. May be used in wet or dry locations.
- Installation in racks, trays or aerially. UL type may also be directly buried.

Standards:

- UL Listed Type MC Cable/UL 1569.
- Temperature Rating +90°C Wet and Dry Locations.
- ICEA S-66-524/NEMA WC-7 and ICEA S-19-81/NEMA WC3. IEEE 1202/FT-4 Flame Test. IEEE 383 Flame Test, 210 BTU Rating. CT Use - UL 1569.

Compliances:

- Copper conductors per ASTM B-3 and B-8, ICEA-NEMA, UL 4, 44, and 1569. Insulation per ICEA S-66-524, NEMA WC-7 UL 44 and 1569. Armor per ICEA S-66-524, NEMA WC-7, UL 4. Jacket per ICEA S-66-524, NEMA WC-7.

Tests:

- The finished cable shall be tested in accordance with and meet the requirements of the applicable sections of ICEA-NEMA standard, UL 4, 44, and 1072.

CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
14000	14	2	7	0.030	0.050	0.680	173
14001	14	3	7	0.030	0.050	0.680	191
14002	14	4	7	0.030	0.050	0.680	214
14003	14	5	7	0.030	0.050	0.690	239
14004	14	7	7	0.030	0.050	0.770	302
14005	14	9	7	0.030	0.050	0.850	360
14006	14	10	7	0.030	0.050	0.840	405
14007	14	12	7	0.030	0.050	0.910	431
14008	14	15	7	0.030	0.050	0.940	515
14009	14	19	7	0.030	0.050	1.010	590
14010	14	25	7	0.030	0.050	1.140	750
14011	14	37	7	0.030	0.050	1.330	1110
14050	12	2	7	0.030	0.050	0.680	206
14051	12	3	7	0.030	0.050	0.680	230
14052	12	4	7	0.030	0.050	0.710	267
14053	12	5	7	0.030	0.050	0.750	305
14054	12	7	7	0.030	0.050	0.850	392
14055	12	9	7	0.030	0.050	0.930	467
14056	12	10	7	0.030	0.050	0.950	515
14057	12	12	7	0.030	0.050	0.990	565
14058	12	15	7	0.030	0.050	1.030	680
14059	12	19	7	0.030	0.050	1.100	790
14060	12	25	7	0.030	0.050	1.260	1035
14061	12	37	7	0.030	0.050	1.470	1395
14100	10	2	7	0.030	0.050	0.680	247
14101	10	3	7	0.030	0.050	0.710	293
14102	10	4	7	0.030	0.050	0.770	349
14103	10	5	7	0.030	0.050	0.810	400
14104	10	7	7	0.030	0.050	0.930	520
14105	10	9	7	0.030	0.050	1.030	628
14107	10	12	7	0.030	0.050	1.090	765
14108	10	15	7	0.030	0.050	1.150	930
14109	10	19	7	0.030	0.050	1.230	1095
14110	10	25	7	0.030	0.050	1.410	1385
14111	10	37	7	0.030	0.050	1.670	1972

NOTE: Also available in teck cable constructions. Check factory for details and specifications.

H

UL TYPE MC - INTERLOCKED ARMOR - PVC JACKET - 600 VOLT

Construction

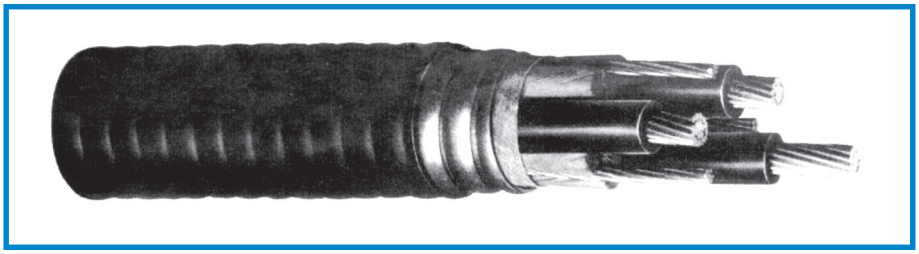
Conductors:
- Class B stranded copper.

Insulation:
- Insulated with heat and moisture resistant crosslinked polyethylene (type XHHW-2), phase identified (black and numbered).

Cabling:
- Cabled together with suitable fillers (when required) and bare copper ground conductor (2 grds/4 conductor). Cable core covered with binder tape.

Armor:
- Aluminum or galvanized steel interlocked armor, with flame and sunlight resistant black PVC jacket. Jacket available under armor and in colors on special order.

Industry Approvals:
- Cables pass UL and IEEE-383 flame test with additional 210,000 BTU rating. IEEE 1202/FT 4 Flame Test.
- CT use-UL approved; UL 1569.
- Sunlight resistant; Direct Burial.
- Color Code K-2.
- Temperature rating 90°C Wet & Dry.
- Per ICEA S-66-524/NEMA WC-7.
- Suitable for use in NEC hazardous locations.



CUSTOM CATALOG NUMBER	SIZE	STRAND	COPPER GROUNDING	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	CURRENT AMPS* Based on 30°C Ambient WET/DRY	NOMINAL WEIGHT (LBS/MFT)	
	AWG/MCM		AWG	COND INSUL.	O/A JACKET	INCHES	90°C	ALUM. ARMOR	GALV. ARMOR
THREE CONDUCTOR									
13200	14	7	14	0.030	0.050	0.675	25	200	297
13201	12	7	12	0.030	0.050	0.675	30	236	333
13202	10	7	10	0.030	0.050	0.675	40	291	393
13203	8	7	10	0.045	0.050	0.850	55	410	497
13204	6	7	8	0.045	0.050	0.930	75	551	659
13205	4	7	8	0.045	0.050	1.010	95	735	854
13206	2	7	6	0.045	0.050	1.150	130	1050	1183
13207	1/0	19	6	0.055	0.050	1.430	170	1553	1812
13208	2/0	19	6	0.055	0.060	1.530	195	1859	2137
13209	3/0	19	4	0.055	0.060	1.670	225	2314	2612
13210	4/0	19	4	0.055	0.060	1.790	260	2781	3108
13211	250	37	4	0.065	0.060	1.930	290	3356	3725
13212	350	37	3	0.065	0.060	2.170	350	4485	4899
13213	500	37	2	0.065	0.075	2.480	430	6204	6693
13214	750	61	1	0.080	0.075	3.000	535	9062	9626
FOUR CONDUCTOR									
13225	14	7	16	0.030	0.050	0.675	20	233	338
13226	12	7	14	0.030	0.050	0.675	24	270	372
13227	10	7	12	0.030	0.050	0.700	32	349	455
13228	8	7	12	0.045	0.050	0.930	44	501	598
13229	6	7	10	0.045	0.050	1.030	60	680	802
13230	4	7	10	0.045	0.050	1.110	76	915	1051
13231	2	7	8	0.045	0.050	1.330	104	1323	1484
13232	1/0	19	8	0.055	0.060	1.570	136	1990	2270
13233	2/0	19	8	0.055	0.060	1.690	156	2416	2729
13234	3/0	19	6	0.055	0.060	1.810	180	2972	3313
13235	4/0	19	6	0.055	0.060	1.950	208	3590	3963
13236	250	37	6	0.065	0.060	2.110	232	4320	4731
13237	350	37	4	0.065	0.075	2.401	280	5914	6385
13238	500	37	4	0.065	0.075	2.720	344	8038	8583
13239	750	61	3	0.080	0.085	3.260	428	11825	12489

* Per NEC Table 310-16 at 30°C Ambient.

NOTE: Also available with EPR Insulation - Consult Factory for Details.
We reserve the right to ship cable with different UL ground wire configurations.

H

UL® LISTED

Passes UL 70,000 BTU Flame Test

Passes IEEE 383 70,000 BTU Flame Test

Passes UL 210,000 BTU Flame Test

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INTERLOCKED ARMOR

THREE CONDUCTOR - XLP - UNSHIELDED/SHIELDED - ALUMINUM OR GALVANIZED INTERLOCKED ARMOR - YELLOW PVC JACKET - 5000 VOLT UL TYPE MC - MV90

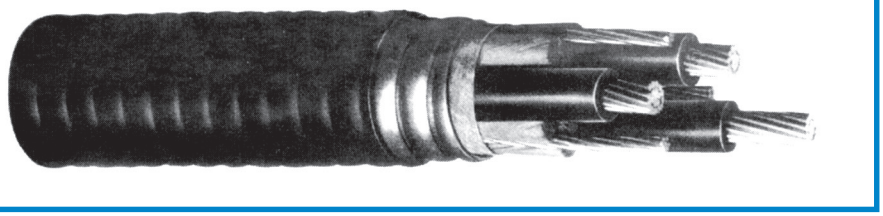
Construction

Description:

- **Unshielded**: Class B stranded copper, extruded conductor shield, insulated with heat and moisture resistant crosslinked polyethylene (type XLP).
- **Shielded:** Class B stranded copper, extruded conductor shield, heat and moisture resistant crosslinked polyethylene (100% and 133% insulation level), semi-conducting insulation shield, copper shield, overall PVC jacket.
- 3 conductors cabled together with suitable fillers (when required) and bare copper ground conductor. Cable core covered with binder tape, aluminum or galvanized steel interlocked armor, with flame and sunlight resistant yellow PVC jacket. Jacket available under armor and in other colors on special order.

Standards:

- Sunlight Resistant.
- Direct Burial.
- CT use - UL approved; UL 1072.
- Color Code K-2.
- Conductors rated at 90°C.
- Per ICEA S-66-524/ NEMA WC-7.
- Cables pass UL and IEEE-383 Flame Test with additional 210 BTU Rating.
- IEEE 1202/FT4 Flame Test (#2 AWG and Larger).



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		COPPER GROUNDING	PVC JACKET THICKNESS	NOMINAL O.D.	CURRENT (AMPS)	NOMINAL WEIGHT (LBS/MFT)	
	AWG/MCM		COND. INSUL.	COND. JACKET	AWG	INCHES	INCHES	40°C[1]	ALUM. ARMOR	GALV. ARMOR
THREE CONDUCTOR WITH GROUNDING CONDUCTOR - UNSHIELDED										
13250	8	7	0.110	—	8	0.050	1.140	52	590	774
13251	6	7	0.110	—	6	0.050	1.200	69	751	950
13252	4	7	0.110	—	6	0.050	1.360	91	1012	1325
13253	2	7	0.110	—	6	0.050	1.490	125	1311	1658
13254	1/0	19	0.110	—	4	0.060	1.700	165	1880	2272
13255	2/0	19	0.110	—	4	0.060	1.790	190	2194	2608
13256	3/0	19	0.110	—	3	0.060	1.910	220	2623	3069
13257	4/0	19	0.110	—	3	0.060	2.020	255	3053	3530
13258	250	37	0.120	—	3	0.060	2.150	280	3503	4011
13259	350	37	0.120	—	2	0.075	2.420	350	5111	5308
13260	500	37	0.120	—	1	0.075	2.660	425	6719	6935
13261	750	61	0.130	—	1/0	0.075	3.130	525	9423	10179
THREE CONDUCTOR WITH GROUNDING CONDUCTOR - SHIELDED										
13350	8	7	0.090	0.060	8	0.050	1.550	52	1072	1455
13351	6	7	0.090	0.060	6	0.060	1.660	69	1204	1613
13352	4	7	0.090	0.060	6	0.060	1.770	91	1489	1927
13353	2	7	0.090	0.060	6	0.060	1.900	125	1828	2298
13354	1/0	19	0.090	0.060	4	0.060	2.110	165	2385	2892
13355	2/0	19	0.090	0.080	4	0.060	2.240	190	2916	3471
13356	3/0	19	0.090	0.080	3	0.060	2.380	220	3383	3969
13357	4/0	19	0.090	0.080	3	0.075	2.510	255	3850	4466
13358	250	37	0.090	0.080	3	0.075	2.660	280	4314	4964
13359	350	37	0.090	0.080	2	0.075	2.810	350	6016	6251
13360	500	37	0.090	0.080	1	0.075	3.090	425	7849	8108
13361	750	61	0.090	0.080	1/0	0.085	3.560	525	10691	10981

NOTE: Also available with EPR Insulation - consult factory for details.
We reserve the right to ship cable with different UL ground wire configurations.

1 Per NEC Table 310-75. Based on one three-conductor cable.

H

THREE CONDUCTOR - XLP - SHIELDED - ALUMINUM OR GALVANIZED INTERLOCKED ARMOR - RED PVC JACKET - 15000 VOLT - UL TYPE MC - MV-90

Construction

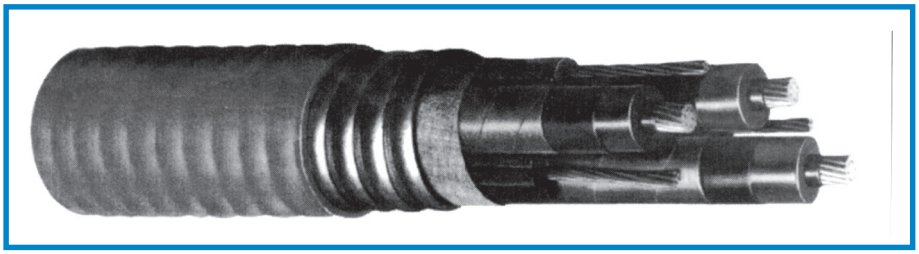
Conductors:
- Class B strand, annealed copper.

Insulation:
- Extruded semi-conducting XLP shield, heat and moisture resistant crosslinked polyethylene, type XLP, 100% or 133% insulation level, semiconducting insulation shield, copper shield, overall PVC jacket.

Cabling:
- Cabled together with suitable fillers (when required) and bare copper ground conductor. Cable core covered with binder tape.

Armor:
- Aluminum or galvanized steel interlocked armor, with flame and sunlight resistant red PVC jacket. Jacket available under armor and in other colors on special order.

Industry Approvals:
- Sunlight Resistant.
- Direct Burial.
- CT use - UL approved; UL 1072.
- Color Code K-2.
- Conductors rated at 90°C.
- Per ICEA S-66-524/ NEMA WC-7.
- Cables pass UL and IEEE-383 Flame Test with additional 210 BTU Rating.
- IEEE 1202/FT4 Flame Test.



CUSTOM CATALOG NUMBER	SIZE	STRAND	COPPER GROUNDING	NOM. THICKNESS (INCHES)		O/A JACKET THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT (LBS/MFT)	
	AWG/MCM		AWG	COND. INSUL.	COND. JACKET	INCHES	INCHES	AMPS*	ALUM. ARMOR	GALV. ARMOR
THREE CONDUCTORS WITH GROUNDING CONDUCTOR - 100% INSULATION LEVEL (GROUNDED NEUTRAL)										
13270	2	7	6	0.175	0.080	0.075	2.490	145	2395	2990
13271	1	19	4	0.175	0.080	0.075	2.590	165	2712	3317
13272	1/0	19	4	0.175	0.080	0.075	2.680	195	3012	3646
13273	2/0	19	4	0.175	0.080	0.075	2.770	220	3365	4020
13274	3/0	19	3	0.175	0.080	0.075	2.890	255	3798	4482
13275	4/0	19	3	0.175	0.080	0.075	3.000	290	4336	5054
13276	250	37	3	0.175	0.080	0.075	3.130	315	4795	5541
13277	350	37	2	0.175	0.080	0.085	3.370	385	6811	7078
13278	500	37	1	0.175	0.080	0.085	3.650	470	8538	8826
13279	750	61	1/0	0.175	0.110	0.085	4.120	570	11869	12199
THREE CONDUCTORS WITH GROUNDING CONDUCTOR - 133% INSULATION LEVEL (UNGROUNDED NEUTRAL)										
13290	2	7	6	0.220	0.080	0.075	2.700	145	2649	3293
13291	1	19	4	0.220	0.080	0.075	2.790	165	3018	3681
13292	1/0	19	4	0.220	0.080	0.075	2.870	195	3319	4003
13293	2/0	19	4	0.220	0.080	0.075	2.980	220	3676	4383
13294	3/0	19	3	0.220	0.080	0.075	3.100	255	4240	4984
13295	4/0	19	3	0.220	0.080	0.085	3.220	290	4804	5584
13296	250	37	3	0.220	0.080	0.085	3.340	315	5292	6098
13297	350	37	2	0.220	0.080	0.085	3.580	385	7175	7456
13298	500	37	1	0.220	0.080	0.085	3.860	470	8928	9228
13299	750	61	1/0	0.220	0.110	0.085	4.480	570	12232	12573

* Per NEC Table 310-75. Based on one three-conductor cable. 40°C Ambient.

NOTE: Also available with EPR Insulation - Consult Factory for Details.
We reserve the right to ship cable with different UL ground wire configurations.

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Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

UL TYPE MC INTERLOCKED ARMOR - 600 VOLT

COPPER CONDUCTOR

Construction

Conductor:
- 3 or 4 conductors, Class B stranded copper.

Insulation:
- Heat and moisture resistant crosslinked polyethylene (type XHHW-2), phase identified.

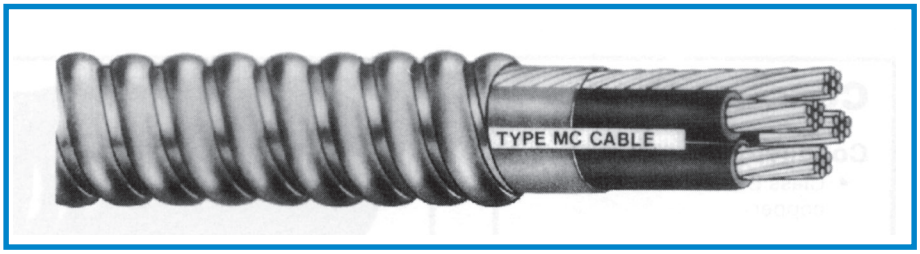
Cabling and Ground Wire:
- Cabled together with suitable fillers** and **green** insulated ground conductor.

Armor:
- Cable core covered with binder tape, **aluminum or galvanized steel Interlocked armor**. *Customer to specify.*
- Jacket: *upon request only.*

Industry Approvals:
- UL 1569.
- ICEA S-95-658/NEMA WC-70.
- NEC Article 330.
- Cable Tray Rated 600V, 90°C rated dry locations only. (Wet/Dry with Jacket).

Features:
- Suitable for use in NEC hazardous locations:
- Class I, Div. 2.
- Class II, Div. 2.
- Class III, Div. 1 & 2.
- For use in Theatres (Article 520), Motion Picture & TV Studios (Article 530) and Places of Assembly with more than 100 people. Can be messenger supported (Article 321).

Applications:
- MC cable is designed to be a cost effective replacement for conduit and wire. Suitable for service, branch and feeder circuits. Ideal for use in commercial, industrial and utility applications. This flexible cable assembly offers:
- Labor and time savings.
- An increased resistance to mechanical damage.
- System design flexibility and the reliability of a factory assembled and tested cable system.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	INSULATION THICKNESS (mils) XHHW-2	INSULATED COPPER GROUNDING CONDUCTORS (AWG) (Green)	OVERALL DIAMETER OVER ARMOR (inches)	WEIGHT (MFT) ALUM. ARMOR	WEIGHT (MFT) GALV. ARMOR	AMPACITY (30°C AMBIENT WET/DRY 90°C)
THREE CONDUCTOR WITH GROUND								
16600	8	7	45	10	.81	333	458	55
16601	6	7	45	8	.91	461	601	75
16602	4	7	45	8	1.01	632	790	95
16603	2	7	45	6	1.15	924	1109	130
16604	1	19	55	6	1.31	1133	1341	150
16605	1/0	19	55	6	1.37	1403	1723	170
16606	2/0	19	55	6	1.43	1692	2036	195
16607	3/0	19	55	4	1.57	2135	2503	225
16608	4/0	19	55	4	1.67	2564	2973	260
16609	250	37	65	4*	1.81	2983	3428	290
16610	350	37	65	3*	2.05	4013	4521	350
16611	500	37	65	2*	2.33	6004	6583	430
16612	750	61	80	1*	2.85	8617	9308	535
FOUR CONDUCTOR WITH GROUND								
16620	8	7	45	10	.89	433	544	44
16621	6	7	45	8	.99	611	738	60
16622	4	7	45	8	1.11	847	992	76
16623	2	7	45	6	1.33	1262	1521	104
16624	1	19	55	6	1.43	1518	1800	120
16625	1/0	19	55	6	1.51	1822	2122	136
16626	2/0	19	55	6	1.61	2203	2518	156
16627	3/0	19	55	4	1.75	2737	3093	180
16628	4/0	19	55	4	1.87	3331	3706	208
16629	250	37	65	4	1.99	4057	4498	232
16630	350	37	65	2 #6	2.25	5585	6056	280
16631	500	37	65	2 #4	2.57	7663	8208	344
16632	750	61	80	2 #3	3.09	11314	11979	428

* Per NEC Table 310-16.

** When needed.

NOTE: The data shown is approximate and subject to standard industry tolerances.

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ARMORED FIRE ALARM CABLE

UL (FPLP) 300 VOLT, (MC) 600 VOLT

Construction

Conductor:
- Solid bare copper.

Insulation:
- TFN/THHN.

Assembly Covering:
- Mylar tape.

Shield:
- Aluminum mylar shield with tinned copper drain wire on part numbers 13720, 13721, 13722 and 13723 only.

Maximum Temperature Rating:
- FPLP 105°C (dry).
- MC 90°C (dry).

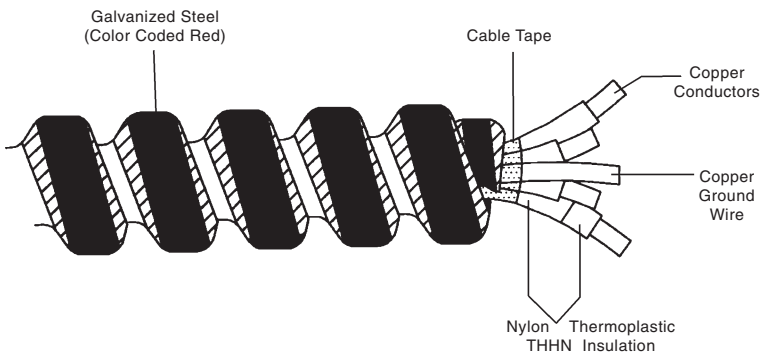
Ground Wire:
- Uninsulated bare copper.

Armor:
- Galvanized steel - spiral color code red™.

Maximum Voltage:
- 300 Volt (FPLP).
- 600 Volt (MC).

Industry Approvals:
- UL 66, 83, 1424,1479, 1569 and 1581.
- NEC® 300-22(c), 330, 392, 430.2, 518, 530, 645, 725, 760, 760-51(d).
- Federal Specification A-A59544 (formerly J-C-30B).
- Passes UL Steiner Tunnel Test; Cable Tray and Plenum rated: 1, 2 and 3-hour through penetration Fire Wall rated.

Applications:
- Commercial/industrial/multi-residential/places of public assembly.
- Fire alarm wiring or remote control hook-up connecting main fire alarm control panel with pull stations, smoke detectors and alarms.
- Remote control circuits from magnetic motor starters, contactors, relays and signals.
- Exposed, concealed, in cable trays, ducts, plenums or other environmental air spaces.
- In hazardous locations up to Class I & II, Div. 2 and Class III, Div. 1 & 2 (as specified in NEC® Articles 501, 502 and 503).



CUSTOM CATALOG NUMBER	SIZE/AWG	COPPER GROUNDING CONDUCTOR AWG	PUTUPS REEL LENGTH (feet)	APPROX. WEIGHT/ 1000 FT. (pounds)	ARMOR MINIMUM O.D. (inches)
UNSHIELDED					
13700	18-2 Solid	18 Bare	A, B, C, D	115	0.410
13701	18-4 Solid	18 Bare	A, B, C, D	130	0.430
13702	18-6 Solid	18 Bare	A, B, C, D	170	0.490
13703	18-8 Solid	18 Bare	A, B, C, D	190	0.510
13704	16-2 Solid	16 Bare	A, B, C, D	130	0.420
13705	16-4 Solid	16 Bare	A, B, C, D	155	0.440
13706	16-6 Solid	16 Bare	A, B, C, D	205	0.510
13707	16-8 Solid	16 Bare	A, B, C, D	230	0.520
13708	14-2 Solid	14 Green	A, B, C, D	175	0.450
13709	14-4 Solid	14 Green	A, B, C, D	230	0.510
13710	14-6 Solid	14 Green	A, B, C, D	250	0.520
13711	14-8 Solid	14 Green	A, B, C, D	325	0.585
13712	12-2 Solid	12 Green	A, B, C, D	215	0.495
13713	12-4 Solid	12 Green	A, B, C, D	295	0.565
SHIELDED					
13720	18-1 Pair Solid	18 Bare	A, B, C, D	120	0.420
13721	16-1 Pair Solid	16 Bare	A, B, C, D	135	0.430
13722	16-2 Pair Solid	16 Bare	A, B, C, D	160	0.450
13723	14-1 Pair Solid	14 Green	A, B, C, D	170	0.470

LENGTH

A. 1000 ft. reels B. 750 ft. reels C. 500 ft. reels. D. 250 ft. coils.

COLOR CODE

Conductor	Color
2	Black, White
4	Black, White, Red, Blue
6	Black, White, Red, Blue, Orange, Yellow
8	Black, White, Red, Blue, Orange, Yellow, Brown, Purple

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ARMORED HEALTH CARE FACILITIES CABLE

UL 600 VOLT

Construction

Conductor:
- Solid bare copper from #14 AWG through #10 AWG. #12 AWG stranded aluminum available. (Sizes larger than 10 AWG available by special order and will be stranded bare copper).

Insulation:
- THHN.

Assembly Covering:
- Paper wrap separator.

Armor:
- Galvanized or aluminum *(customer must specify)*, spiral color code green™.

Maximum Temperature:
- 90°C (Dry).

Ground Wire:
- 16 AWG integral bond wire/ armor combination plus **Insulated** green grounding conductor.

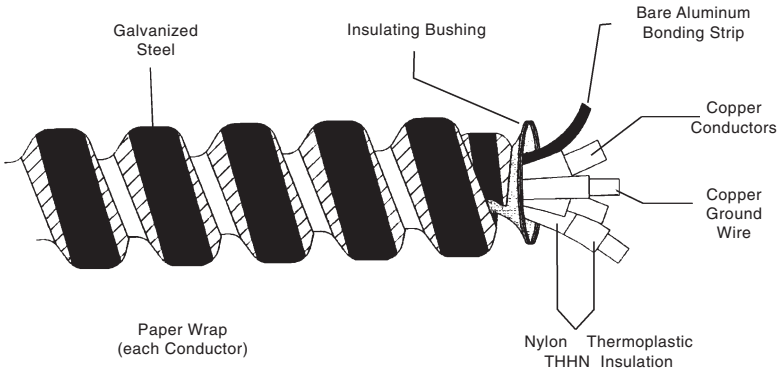
Color Code:
1. Black
2. White
3. Red
4. Blue

Maximum Voltage:
- 600 Volt.

Industry Approvals:
- UL 4, 83, 1479, and 1581.
- NEC® 250.118, 300-22(c), 392, 518 and 645.
- Federal Specification A-A59544 (Formally J-C-30B).
- Meets all applicable OSHA and HUD requirements.
- UL rated for Cable Tray and Environmental Air-Handling space installation, 1, 2 and 3 hour through-penetration Fire Wall rated.

Applications:
- For hospitals, nursing homes, healthcare facilities and environmental air handling spaces. Also, applications where redundant grounds are specified.

Packaging:
- See grid for specifics.



CUSTOM CATALOG NUMBER	SIZE/ AWG	STRAND	GROUND WIRE AWG	NOMINAL O.D. (INCHES)	NOMINAL WEIGHT (LBS/MFT)	PUT-UPS*
GALVANIZED STEEL ARMOR*						
13740	14/2	SOLID	14	0.453	190	A, B
13741	14/3	SOLID	14	0.486	220	A, B
13742	14/4	SOLID	14	0.522	250	A, B
13743	12/2	SOLID	12	0.489	220	A, B
13744	12/3	SOLID	12	0.520	260	A, B
13745	12/4	SOLID	12	0.545	300	A, B
13746	10/2	SOLID	10	0.500	290	A, B, C
13747	10/3	SOLID	10	0.541	345	A, B, C
13748	10/4	SOLID	10	0.587	405	A, B, C
ALUMINUM ARMOR						
13760	14/2	SOLID	14	0.453	100	A, B
13761	14/3	SOLID	14	0.486	120	A, B
13762	14/4	SOLID	14	0.522	140	A, B
13763	12/2	SOLID	12	0.489	130	A, B
13764	12/3	SOLID	12	0.520	155	A, B
13765	12/4	SOLID	12	0.545	185	A, B
13766	10/2	SOLID	10	0.500	180	A, B, C
13767	10/3	SOLID	10	0.541	225	A, B, C
13768	10/4	SOLID	10	0.587	275	A, B, C
13795	12/2	STRANDED	12	0.489	180	A, B
13796	12/3	STRANDED	12	0.520	225	A, B
13797	12/4	STRANDED	12	0.545	275	A, B

* PUT-UPS:
- A. 1000 Ft. Reels
- B. 250 Ft. Coils
- C. 125 Ft. Coils

Also available in #8 AWG through #1 AWG by special order. Check Sales Office for price and availability.

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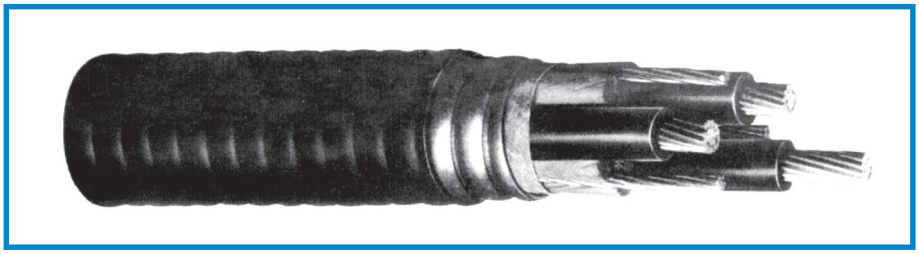
Armored Power and Control Cable
UL Type MC HL, 600V, 90°C Rated



Construction

Conductor:
Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8.

Insulation:
Cross linked polyethylene type XHHW-2 per UL 44.

Assembly:
Conductors are cabled in concentric layers with or without grounding wire(s), interstices are filled with suitable non-hygroscopic fillers, as required. A binder tape of synthetic material assembles the core in an essentially round configuration.

Armor:
Continuous corrugated aluminum sheath with no more than 0.4% trace copper providing complete protection against liquid & gas ingress. It also provides excellent mechanical protection, additional electrostatic shielding, and serves as an easy means of grounding equipment.

Jacket:
Overall polyvinyl chloride jacket per UL 1569, 90°C temperature rating; low gas emission; limited flame spread and excellent corrosion resistance.

Identification of Conductors

Power and Control:
- #14 AWG to #10 AWG (for 3 cond.: 14 AWG to 2 AWG): Method #1- E2 per ICEA S-73-532
- #8 AWG to 500 kcmil (for 3 cond.: 1 AWG to 500 kcmil): Method #4 per ICEA S-73-532

Composite power and control:
- Power conductors: Method #4 per ICEA S-73-532
- Control conductors: Method #1-E2 per ICEA S-73-532

Bending Radius
- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

Specifications
- Meets UL44, XHHW-2 600V conductors
- Meets UL 1569 requirements for Type MC, Metal Clad cables
- Meets UL 2225 for Hazardous Locations
- Designated Type MC as per NEC Article 320

Product Features
- UL approved cables Type MC, 600V; File No. E47409.
- UL approved insulated conductors.
- Cables pass UL 1685 and IEEE 383 vertical tray fire tests at 70,000 BTU/hr, ICEA T-29-520 fire test at 210,000 BTU/hr, IEC 332-3 category A fire test, IEEE 1202 and CSA FT4.
- Cables are American Bureau of Shipping (ABS) listed as CWC MC Type MC.
- Cables exhibit a low temperature rating of -25°C impact and -40°C bend with suitable precautions.
- Temperature rating of 90°C dry and wet.
- 130°C emergency rating & 250°C short circuit rating.
- Continuous, impervious metallic sheath corrugated for flexibility, prevents ingress of moisture, gases and liquids.
- Aluminum sheath cross-section exceeds requirements of the NEC Section 250.122 for grounding conductor.
- Sheath provides good electronic shielding so that Corflex® can be used in certain instrumentation applications when adequately grounded.
- Excellent mechanical and physical properties.
- Sunlight and oil resistant jacket.
- Suitable for direct burial and use in cable tray.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	INSUL. THICK.	GROUND WIRE SIZE AWG	NOMINAL DIA. OVER CORE	NOMINAL DIA. OVER SHEATH	JACKET THICK.	NOMINAL DIA. OVER JACKET	APPROX. CABLE WEIGHT	AMPACITY AMPS (1)
3 CONDUCTORS WITH 3 BARE GROUNDS* (WITH PVC JACKET)									
14300	14(7w)	30	3x18(7w)	.390	.555	50	.660	200	20
14301	12(7w)	30	3x16(7w)	.340	.555	50	.660	228	30
14302	10(7w)	30	3x14(7w)	.450	.620	50	.725	312	40
14303	8(7w)	45	3x14(7w)	.520	.753	50	.856	413	55
14304	6(7w)	45	3x12(7w)	.600	.802	50	.905	542	75
14305	4(7w)	45	3x12(7w)	.700	.937	50	1.043	735	95
14306	2(7w)	45	3x10(7w)	.830	1.127	50	1.232	1097	130
14307	1(19w)	55	3x10(7w)	.950	1.230	50	1.320	1330	150
14308	1/0(19w)	55	3x10 (7w)	1.040	1.350	50	1.456	1592	170
14309	2/0(19w)	55	3x10(7w)	1.150	1.525	60	1.653	1990	195
14310	3/0(19w)	55	3x8(7w)	1.250	1.584	60	1.710	2420	225
14311	4/0(19w)	55	3x8(7w)	1.370	1.711	60	1.810	2905	260
14312	250(37w)	65	3x8(7w)	1.510	1.925	60	2.005	3385	290
14313	350(37w)	65	3x6(7w)	1.730	2.220	60	2.350	4560	350
14314	500(37w)	65	3x6(7w)	2.010	2.480	75	2.640	6245	430
14315	750(61w)	80	3x4(7w)	2.477	3.172	85	3.356	9530	530
4 CONDUCTORS WITH 1 BARE GROUND (WITH PVC JACKET)									
14360	14(7w)	30	14(7w)	.345	.522	50	.630	200	20
14361	12(7w)	30	12(7w)	.396	.618	50	.730	245	30
14362	10(7w)	30	10(7w)	.458	.618	50	.730	340	40
14363	8(7w)	45	10(7w)	.607	.789	50	.900	468	55
14364	6(7w)	45	8(7w)	.709	.961	50	1.070	685	75
14365	4(7w)	45	8(7w)	.821	1.181	50	1.290	980	95
14366	2(7w)	45	6(7w)	.971	1.370	50	1.490	1410	130
14367	1(19w)	55	6(7w)	1.065	1.370	50	1.490	1670	150
14368	1/0(19w)	55	6(7w)	1.162	1.573	60	1.710	2075	170
14369	2/0(19w)	55	6(7w)	1.268	1.573	60	1.710	2440	195
14370	3/0(19w)	55	4(7w)	1.389	1.734	60	1.870	3010	225
14371	4/0(19w)	55	4(7w)	1.530	1.959	60	2.090	3670	260
14372	250(37w)	65	4(7w)	1.690	1.959	60	2.090	4215	290
14373	350(37w)	65	3(7w)	1.938	2.480	75	2.610	5835	350
14374	500(37w)	65	2(7w)	2.250	2.800	75	2.930	8190	430
14375	750(61w)	80	1(19w)	2.757	3.400	85	3.580	12028	535

* The constructions with three grounds are excellent for use with variable frequency drives.

(1) Ampacities are in accordance with Table 310.16 of NEC for conductors in raceway or direct buried at 30°C ambient temperature and 90°C conductor temperature.
The overcurrent protection shall not exceed 15 amperes for 14 AWG, 20 amperes for 12 AWG and 30 amperes for 10 AWG copper conductors after any correction factors for ambient temperature and number of conductors have been applied (NEC Article 240.4(D)).
For correction factors for different ambient temperatures and ampacities at different conductor temperatures see Table 310.16 of NEC.
Ampacities for cablers having more then three conductors have been derated per Article 310.15(B)(2)(a) of NEC.

(2) Where the 4th conductor is the neutral of a balanced 3 phase system, otherwise the ampacity is 130% of the value shown.

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CONTINUOUS CORRUGATED ARMOR 5kV, 8kV, 15kV

Aluminum Armored
UL Type MV-105 HL

Construction

Conductor: Bare, compact, annealed copper conforming to ASTM B-496.

Conductor Shield: Extruded thermosetting semi-conducting layer.

Insulation: EPR as per UL 1072; AEIC CS 8-00; and ICEA S-93-639.

Insulation Shield: Extruded thermosetting semi-conducting layer followed by overlapping copper tapes (as required).

Assembly: Insulated conductors are cabled in concentric layers with ground wire(s) and interstices are filled with suitable non-hygroscopic fillers, as required. A binder tape of synthetic material assembles the core in an essentially round configuration.

Armor: Continuous corrugated aluminum sheath with no more than 0.4% trace copper providing complete protection against liquid and gas ingress. It also provides excellent mechanical protection, additional electrostatic shielding, and serves as an easy means of grounding equipment.

Jacket: Overall polyvinyl chloride jacket per UL 1072, 90°C temperature rating; low gas emission; limited flame, spread and excellent corrosion resistance.

Conductor Identification

Unshielded cable: Number coded.

Shielded cable: Colored marker rope between insulation shield and metallic copper tape shield.

Bending Radius

Fixed Position:
Unshielded: 7 x cable overall diameter.
Shielded: 12 x cable overall diameter.

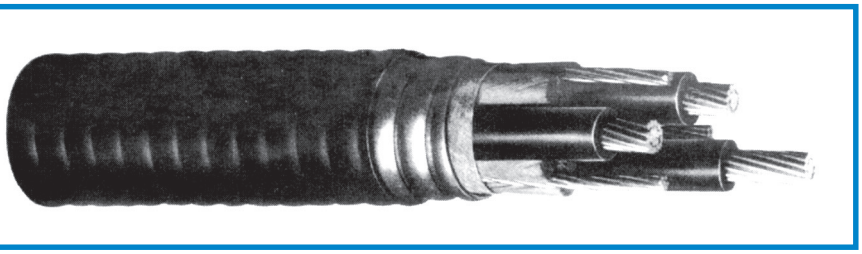
During Pulling:
Unshielded: 12 x cable overall diameter.
Shielded: 18 x cable overall diameter.

Specifications

- Meets ICEA S-93-639 and AEIC CS-8-00 (AEIC for shielded cables only).
- Meets UL 1072 for Medium Voltage Cables, Type MV-105.
- Meets UL 2225 for Hazardous Locations.
- Designated Type MV as per NEC Article 328.

Options

- Also available in XLP Insulation. Contact factory for details.



CUSTOM CATALOG NUMBER	SIZE AWG	GROUND WIRE SIZE AWG	INSULATION THICKNESS (MILS)	JACKET THICKNESS (MILS)	NOM. DIA. OVER JACKET (INCHES)	AMPACITY AMPS (1, 2)	AMPACITY AMPS (3)	NET WEIGHT LBS./MFT.
3 CONDUCTORS, 5KV, NON-SHIELDED, EPR INSULATION, WITH BARE GROUNDS								
14400	2(7w)	3x10(7w)	90	60	1.52	140	180	1340
14403	2/0(18w)	3x8(7w)	90	60	1.80	215	260	2526
14405	4/0(18w)	3x6(7w)	90	60	2.08	285	335	3188
14407	350(36w)	3x6(7w)	90	75	2.36	395	440	4732
14408	500(36w)	3x4(7w)	90	75	2.64	485	530	6558
3 CONDUCTORS, 8KV, SHIELDED, EPR INSULATION, WITH BARE GROUNDS*								
14420	2(7w)	3x10(7w)	115	60	1.89	140	180	1877
14422	2/0(18w)	3x8(7w)	115	60	2.11	215	260	2768
14424	4/0(18w)	3x6(7w)	115	75	2.35	285	335	3785
14426	350(36w)	3x6(7w)	115	75	2.64	395	440	5540
14427	500(36w)	3x4(7w)	115	85	3.34	485	530	7795
3 CONDUCTORS, 15KV, 133% SHIELDED, EPR INSULATION, WITH BARE GROUNDS								
14430	2(7w)	6(7w)	220	75	2.35	165	185	2520
14432	2/0(18w)	4(7w)	220	75	2.64	245	270	3632
14434	4/0(18w)	3(7w)	220	85	2.96	325	350	4957
14436	350(36w)	2(7w)	220	85	3.38	435	460	6848
14437	500(36w)	1(7w)	220	85	3.69	535	550	8998

***This cable may also be considered 5kV 100% and 133% shielded.**

Note: XLP Insulation available on special order.
Other sizes available on special order, consult factory.

(1) Ampacity for cable in accordance with Table 310.71 of NEC, conductor temperature of 90°C and ambient air temperature at 40°C.

(2) Ampacity for cable In ventilated tray in accordance with Article 392.13(A)(2) and Table 310.71 of NEC.

(3) Ampacity for cable direct buried in accordance with table 310.83 with 90°C conductor temperature, R.H.O. 90, 100% load factor, 20°C earth temperature, one circuit.

Product Features

- UL approved cables Type MV-105, 5kV and 15kV.
- UL, AEIC and ICEA approved insulated conductors.
- Cables pass UL 1685 and IEEE 383 vertical tray fire tests at 70,000 BTU/ hr, ICEA T-29-520 fire test at 210,000 BTU/hr, IEC 332-3 category A fire test, IEEE 1202 and CSA FT4.
- Cables are American Bureau of Shipping (ABS) listed as CWC MC Type MV/MC.
- Cables exhibit a low temperature rating in excess of -25°C impact and -40°C bend with suitable precautions.
- Temperature rating of 105°C.
- 130°C emergency rating and 250°C short circuit rating.
- Continuous, impervious metallic sheath corrugated for flexibility, prevents ingress of moisture, gases and liquids.
- Aluminum sheath cross-section exceeds requirements of the NEC Section 250.122 for grounding conductor.
- Excellent mechanical & physical properties.
- Sunlight and oil resistant jacket.
- Suitable for direct burial, use in cable tray and embedment in concrete.

THREE CONDUCTOR, EPR INSULATION, AIA/PVC JACKET, NON-SHIELDED, ARMORED, 2400V, UL TYPE MV-90 or MC

Construction

Description

Conductor:
- 6 AWG thru 1000 kcmil bare copper, compact Class B strand.

Extruded Strand Shield:
- Extruded thermoset semi-conducting stress control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) colored to contrast with black conducting shield layer.

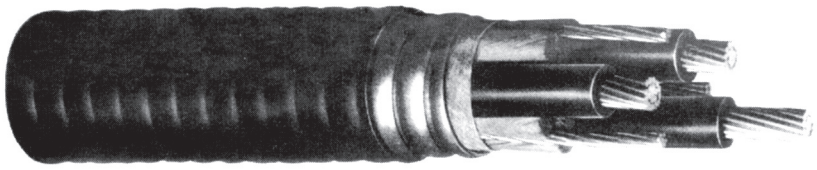
Ground:
- Annealed bare copper Class B stranding per ASTM B8.

Armor:
- Aluminum Interlocked Armor (AIA).

Jacket:
- Flame-retardant, moisture- and sunlight-resistant polyvinyl chloride (PVC).

Applications:
- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance will be demanded, space is limited, ease of installation is critical and fire resistance is necessary.
- May be installed in wet or dry locations, indoors or outdoors and in exposed or concealed work.
- May be used in cable trays or on approved supports in protected areas.

Features:
- Rated at 90°C wet or dry.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical- and radiation-resistant.
- Excellent crush resistance.
- Flame or sunlight resistance.
- Cost-effective alternative to installations in conduit.
- Meets the cold bend test at -25°C.
- Sunlight resistant for CT use.



CUSTOM CATALOG NUMBER	COND. SIZE (kcmil)	NO. OF COND.	GROUND WIRE SIZE (AWG)	MIN. AVG. INSUL. THICK. INCHES	NOM. DIA. (OVER) ARMOR INCHES	NOMINAL CABLE O.D. INCHES	COPPER WEIGHT lbs./ 1000 ft.	NET WEIGHT lbs./ 1000 ft.
THREE CONDUCTOR — .115 MIL EPR INSULATION - 2400 V								
132510	6	3	6	0.115	1.18	1.29	307	845
132520	4	3	6	0.115	1.28	1.39	487	1096
132530	2	3	6	0.115	1.41	1.52	716	1399
132540	1/0	3	4	0.115	1.58	1.71	1231	2016
132550	2/0	3	4	0.115	1.70	1.83	1488	2448
132570	4/0	3	3	0.115	1.93	2.05	2217	3320
132580	250	3	3	0.115	1.99	2.12	2576	3783
132590	350	3	2	0.115	2.20	2.33	3655	5035
132600	500	3	1	0.115	2.47	2.63	5052	6740
132610	750	3	1/0	0.115	2.85	3.01	7380	9410
132620	1000	3	1/0	0.115	3.15	3.35	9709	12145

Dimensions and weights are nominal; subject to industry tolerances.

Standards:
- National Electric Code (NEC).
- ICEA S-96-659/NEMA WC-71.
- UL Listed as Type MV or Type MC.
- UL 1072.
- UL 1569.
- IEEE 1202 (70,000 BTU/hr.).
- IEEE 383 (70,000 BTU/hr.).
- UL 1581 (70,000 BTU/hr.).
- ICEA T-29-520 (210,000 BTU/hr.).
- ICEA T-30-520 (70,000 BTU/hr.).
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method.
- OSHA acceptable.

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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INTERLOCKED ARMOR

THREE CONDUCTOR, EPR INSULATION, AIA/PVC JACKET, SHIELDED, ARMORED, 5kV/8KV, UL TYPE MV-105 OR MC, 133%/100% INS. LEVELS

Construction

Description
Conductor:
- 6 AWG thru 1000 kcmil bare, compact copper Class B strand.

Extruded Strand Shield:
- Thermoset semi-conducting extruded stress control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers.

Extruded Insulation Shield:
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Shield:
- 5 mil annealed copper tape with a minimum 25% overlap.

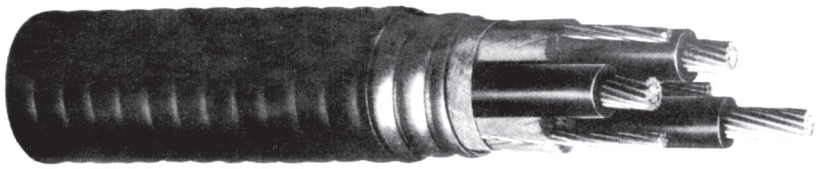
Ground:
- Annealed bare copper Class B stranding per ASTM B8.

Armor:
- Aluminum Interlocked Armor (AIA).

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Applications:
- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary.
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work.
- May be used in cable trays or on approved support in protected areas.

Features:
- Rated at 105°C wet or dry.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical- and radiation-resistant.
- Excellent crush resistance.
- Cost-effective alternative to installations in conduit.
- Meets cold bend test at -25°C.
- Sunlight resistant for CT use.



CUSTOM CABLE CATALOG NUMBER	COND. SIZE AWG/kcmil	NUMBER OF COND.	GROUND WIRE SIZE AWG	NOM. DIA. (OVER) ARMOR INCHES	NOM. ABLE O.D. INCHES	COPPER WEIGHT lbs./1000 ft.	NET WEIGHT W/AL ARMOR lbs./1000 ft.
THREE CONDUCTOR – .115 MIL EPR INSULATION, 5kV, 133% INS. LEVEL OR 8kV, 100% INS. LEVEL							
133510	6	3	6	1.51	1.66	4.59	1141
133520	4	3	6	1.60	1.73	666	1301
133530	2	3	6	1.63	1.76	863	1810
133540	1/0	3	4	1.84	1.96	1300	2366
133550	2/0	3	4	1.87	2.00	1571	2726
133570	4/0	3	3	2.14	2.26	2370	3707
133580	250	3	3	2.25	2.40	2746	4093
133590	350	3	2	2.39	2.55	3755	4531
133600	500	3	1	2.68	2.84	5258	7320
133610	750	3	1/0	3.10	3.25	7672	9939
133620	1000	3	1/0	3.41	3.56	10132	12948

Dimensions and weights are nominal; subject to industry tolerances.

Compliances:
- National Electric Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC-74.
- ASC CS8.
- UL listed as Type MV-105.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- IEEE 383 (70,000 BTU/hr.).
- UL 1581 (70,000 BTU/hr.).
- ICEA T-29-520 (210,000 BTU/hr.).
- ICEA T-30-520 (70,000 BTU/hr.).
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method.
- OSHA acceptable.

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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THREE CONDUCTOR, EPR INSULATION, AIA/PVC JACKET, SHIELDED, ARMORED, 15kV, UL TYPE MV-105 OR MC, 133% INS. LEVELS, .220 MIL INSULATION

Construction

Description Conductor:
- 2 AWG thru 1000 kcmil bare, compact copper Class B strand.

Extruded Strand Shield:
- Thermoset semi-conducting extruded stress control layer over conductor.

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers.

Extruded Insulation Shield:
- Thermoset semi-conducting polymeric layer free stripping from insulation.

Shield:
- 5 mil annealed copper tape with a minimum 25% overlap.

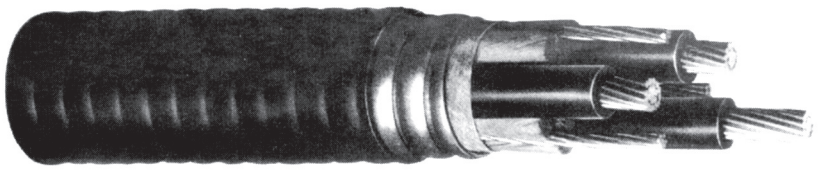
Ground:
- Annealed bare copper Class B stranding per ASTM B8.

Armor:
- Aluminum Interlocked Armor (AIA).

Jacket:
- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Applications:
- Ideally suited for use in a broad range of commercial, industrial and utility applications where reliability is the major concern, maximum performance is demanded, space is limited, ease of installation is critical and fire resistance is necessary.
- Installed in wet or dry locations, indoors or outdoors, in exposed or concealed work.
- May be used in cable trays or on approved support in protected areas.

Features:
- Rated at 105°C wet or dry.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical- and radiation-resistant.
- Excellent crush resistance.
- Cost-effective alternative to installations in conduit.
- Meets cold bend test at -25°C.
- Sunlight resistant for CT use.



CUSTOM CABLE CATALOG NUMBER	COND. SIZE AWG/kcmil	NUMBER OF COND.	GROUND WIRE SIZE AWG	NOM. DIA. (OVER) ARMOR INCHES	NOM. ABLE O.D. INCHES	COPPER WEIGHT lbs./1000 ft.	NET WEIGHT W/AL ARMOR lbs./1000 ft.
THREE CONDUCTOR — .220 MIL EPR INSULATION, 15kV, 133% INS. LEVEL							
132900	2	3	6	2.09	2.22	931	2458
132920	1/0	3	4	2.28	2.43	1376	3058
132930	2/0	3	4	2.32	2.45	1647	3406
132950	4/0	3	3	2.54	2.71	2504	4523
132960	250	3	3	2.68	2.83	2803	5101
132970	350	3	2	2.90	3.06	3998	6488
132980	500	3	1	3.16	3.34	5441	8304
132990	750	3	1/0	3.53	3.68	7855	11305
132991	1000	3	1/0	3.86	4.01	10254	14205

Dimensions and weights are nominal; subject to industry tolerances.

Compliances:
- National Electric Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC-74.
- AEIC C58.
- UL listed as Type MV-105.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- IEEE 383 (70,000 BTU/hr.).
- UL 1581 (70,000 BTU/hr.).
- ICEA T-29-520 (210,000 BTU/hr.).
- ICEA T-30-520 (70,000 BTU/hr.).
- Meets EPA 40 CFR part 261 for leachable lead content per TCLP method.
- OSHA acceptable.

Packaging:
- Material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

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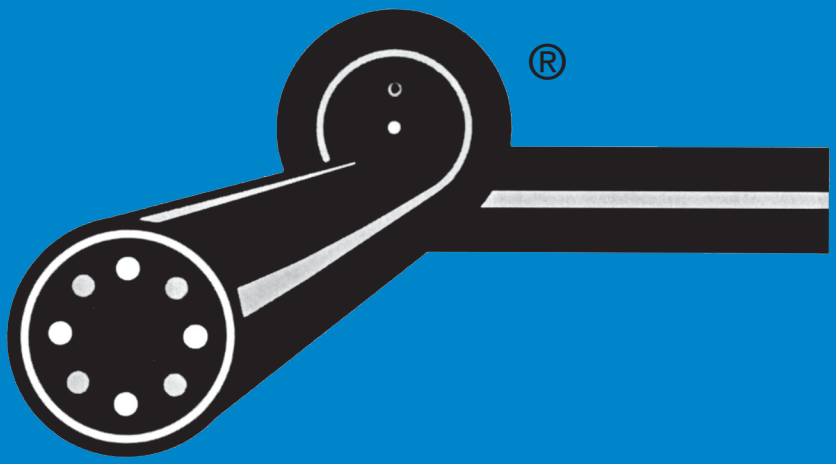
SWITCHBOARD, APPLIANCE AND HI-TEMP WIRE



SWITCHBOARD WIRE

TYPE SIS - 600 VOLT, 90°C

Construction

Conductor:
- Stranded tinned copper.

Insulation:
- Gray chemically crosslinked polyethylene. Check factory for other colors.

Description:
- Stranded tinned copper conductors insulated with a 90°C rated chemically crosslinked polyethylene compound that makes small diameters and light weights possible. In addition, greater tensile strength and resistance to flame, fungus, tears and abrasion are provided. UL Listed. Meets VW-1 flame test and is so printed.

Applications:
- Panel boards, switchboards and control apparatus. For use at 600 volts 90°C maximum operation in dry locations in accordance with the National Electrical Code.

Rating:
- 600 volts. 90°C continuous operation in air. Amps per NEC Art. 310.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	CURRENT AMPS	NOMINAL WEIGHT LBS/MFT
9903	14	7	0.030	0.140	25	19
9905	12	7	0.030	0.170	30	30
9906	10	7	0.030	0.190	40	45
9910	8	7	0.045	0.250	50	70
FLEXIBLE STRANDING						
9915	18*	16	0.030	0.120	21	10
9916	16*	26	0.030	0.130	22	15
9917	14	41	0.030	0.150	25	20
9920	12	65	0.030	0.170	30	32
9921	10	104	0.030	0.200	40	47
9922	8	133	0.045	0.270	50	75
9924	6	133	0.060	0.340	70	125
9926	4	133	0.060	0.400	90	180
9927	2	133	0.060	0.455	110	259

NOTE: VW1 must be specified when ordering if so required. Gray is standard color. Other colors available upon request.

* Not UL listed.

UL® LISTED

BRAIDLESS SILICONE APPARATUS AND MOTOR LEAD WIRE

150°C, 600 VOLT, UL RECOGNIZED

Construction

Conductor:
- Soft annealed stranded tinned copper.
- Silicone Insulated, standard colors black or white.
- IEEE 180°C motor lead class H.
- Varnish bake cycle:
  300° F 24 hr.
  325° F 12 hr.
  350° F 4 hr.

Application:
- For use in motor leads, appliances, lighting fixtures, high temperature electronic applications.
- Most every high temperature application where flexibility is required.

Features:
- Excellent physical and mechanical strength properties.
- Easy and clean stripping.

CUSTOM CATALOG NUMBER	SIZE AWG	NO. OF STRANDS	INSULATION THICKNESS MILS - NOM.	DIAMETER INCHES NOM.	APPROX. NET WT. PER MFT.	UL STYLE NUMBER	CSA TYPE
9870	22	7/30	45	0.122	10	3212	AWM
9871	20	10/30	45	0.132	12	3212	AWM
9872	18	18/30	45	0.144	14	3212	AWM
9873	16	26/30	45	0.159	17	3212	AWM
9874	14	41/30	45	0.173	23	3212	AWM
9875	12	65/30	45	0.180	34	3212	AWM
9876	10	105/30	45	0.204	49	3212	AWM
9877	8	133/29	60	0.288	81	3213	AWM
9878	6	133/27	60	0.332	118	3213	AWM
9879	4	133/25	60	0.388	173	3213	—
9880	2	259/25	60	0.470	256	3213	—
9881	1	259/25	80	0.548	327	3214	—
9882	1/0	259/24	80	0.594	404	3214	—
9883	2/0	259/23	80	0.645	512	3214	—
9884	3/0	259/22	80	0.707	633	3214	—
9885	4/0	259/21	80	0.774	775	3214	—

Data Subject To Change Without Notice.

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APPLIANCE, UL FIXTURE & MOTOR LEAD WIRE

150°C / 200°C, 600 VOLT - SILICONE RUBBER INSULATION
OVERALL GLASS BRAID - SF-2 AND SFF-2, SEW-2 AND SEWF-2

Construction

Conductor:
- Annealed tin coated copper per ASTM B33; stranded per ASTM B8 (Class B), ASTM B173 (Class H) or ASTM B174 (Class K).

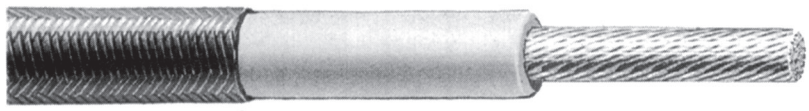
Insulation:
- Silicone rubber.

Conductor Covering:
- Braided glass yarn, treated with flame, heat and moisture resistant finish. (High temperature finish)

Applications:
- Appliance and Fixture Wire is designed for use in hazardous location motors or internal wiring of appliances or electrical equipment where moisture, cold and/or heat may be present.

Features and Benefits:
- Good chemical resistance.
- Excellent electrical properties.
- When burned, silicone rubber leaves a non-conducting ash which retains dielectric qualities so that continued operation is possible to achieve a controlled shutdown.
- Fungus resistance. Silicone rubber contains no chlorine or other halogens, therefore, the products of combustion are considerably less toxic and corrosive than materials made from chlorinated hydrocarbons.

Overall glass braid provides:
- Mechanical protection.
- Flame and moisture resistance.
- Color coding for easy circuit identification.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	BRAID THICKNESS	NOMINAL O.D.	CURRENT	UL/CSA STYLE	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	INCHES	AMPS*		LBS/MFT
9725	18	7/.0152	0.030	0.007	0.126	32	1	12
9726	16	7/.0192	0.030	0.007	0.136	35	2	16
9727	14	7/.0242	0.030	0.007	0.147	45	2	22
9735	12	19/.0185	0.030	0.008	0.166	55	3	32
9736	10	37/.0234	0.045	0.008	0.216	75	4	62
9740	18	16/.0100	0.030	0.005	0.121	31	5	12
9741	16	26/.0100	0.030	0.005	0.131	34	5	16
9742	14	41/.0100	0.030	0.005	0.147	40	6	22
9750	12	65/.0100	0.030	0.005	0.166	50	7	32
9751	10	105/.0100	0.045	0.005	0.226	70	8	62
9775*	8	133/.0111	0.060	0.009	0.314	95	9	90
9776*	6	133/.0140	0.060	0.009	0.357	130	9	140
9780	4	133/.0177	0.060	0.009	0.411	180	10	205
9782	2	133/.0223	0.060	0.009	0.485	240	10	300
9783	1	259/.0177	0.080	0.010	0.570	280	11	362
9784	1/0	259/.0202	0.080	0.015	0.615	325	11	445
9785	2/0	259/.0227	0.080	0.015	0.670	370	11	550
9786	3/0	259/.0255	0.080	0.015	0.730	430	11	675
9787	4/0	259/.0286	0.080	0.015	0.800	510	11	830
9788**	**250**	**427/.0242**	**0.095**	**0.015**	**0.923**	**706**	**12**	**940**
9790**	**350**	**427/.0287**	**0.095**	**0.015**	**1.030**	**877**	**12**	**1280**
9791**	**500**	**427/.0342**	**0.095**	**0.015**	**1.193**	**1103**	**12**	**1760**

UL/CSA STYLE	
1	200°C - UL 3071, 3172, SF-2 - CSA SEW-2
2	200°C - UL 3071, SF-2 - CSA SEW-2
3	200°C - UL 3074 - CSA SEW-2
4	200°C - UL 3075 - CSA SEW-2
5	150°C - UL 3070, 3123, SFF-2 - CSA SEWF-2
6	150°C - UL 3070, SFF-2 - CSA SEWF-2
7	150°C - UL 3070 - CSA SEWF-2
8	150°C - UL 3101 - CSA SEWF-2
9	150°C - UL 3278 - CSA SEWF-2
10	200°C - UL 3125 - CSA SEW-2
11	200°C - UL 3231 - CSA SEW-2
12	200°C - UL 3410

- Ampacity based on single conductor in free air, 30°C ambient.
- We can also supply type SRK. Please specify when ordering.

* **As shown, material UL at 150°C and non-UL at 200°C. If UL at 200°C is required, we will supply: #8 AWG 49/.0164 strand, #6 AWG 49/.0231 strand.**

** **Available Type SRK Only.**

I

Recognized Component
Underwriters Laboratories Inc.

Certified
Canadian Standard Association

Custom Cable Corp.

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APPLIANCE, UL FIXTURE & MOTOR LEAD WIRE

TGGT APPARATUS AND MOTOR LEAD WIRE 250°C, 600 VOLT

Construction

Conductor:
- Nickel plated copper per ASTM B355; stranding per ASTM B8 (Class B), ASTM B173 (Class H) or ASTM B174 (Class K).

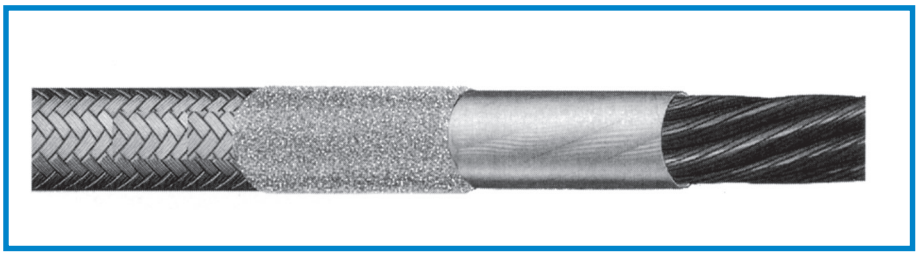
Composite Insulation:
- PTFE Teflon® tape wrapped in concentric layers and a wall of glass fiber wrap impregnated with a flame-retardant, high temperature finish.

Overall Jacket:
- Tan braided glass yarn impregnated with flame, heat, moisture and fraying resistant finish. (Impregnated glass braid)

Applications:
- TGGT Apparatus and Motor Lead Wire is designed for use as internal wiring of commercial and industrial heating and cooking equipment in both damp and dry applications, electronic equipment and similar high temperature appliances.

TGGT Apparatus & Motor Lead Wire:
- Temperature rating: Normal 250°C.
- Class H&K stranding provides additional flexibility.
- Nickel coated copper conductor maintains flexibility and conductivity at elevated temperatures.
- PTFE Teflon®/glass serve/glass braid composite insulation provides:
  (a) Excellent moisture resistance through the use of heat fused Teflon® tape.
  (b) Thermal protection and flame resistance through the use of inorganic insulation materials.
  (c) Mechanical protection.
- TGGT Apparatus and Motor Lead Wire provides:
  (a) Good flexibility.
  (b) Excellent resistance to moisture, heat and flames.
  (c) Excellent resistance to oil, hydraulic fluid, acids and solvents. Chemical resistant.
  (d) High dielectric strength.
  (e) Low power factor without cold flow.

Industry Approvals:
- Listed by UL (Style 5251) and CSA Class I A/B.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	SERVE THICKNESS	BRAID THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	INCHES	INCHES	AMPS*	LBS/MFT
9801	18	16	0.010	0.008	0.005	0.110	23	12
9802	16	26	0.012	0.008	0.005	0.120	29	16
9803	14	41	0.012	0.008	0.005	0.140	40	23
9805	12	65	0.012	0.008	0.005	0.160	55	32
9806	10	105	0.012	0.008	0.005	0.185	75	48
9810	8	133	0.012	0.008	0.005	0.230	95	72
9811	6	133	0.020	0.015	0.017	0.285	135	120
9812	4	133	0.020	0.015	0.017	0.340	175	175
9813	2	133	0.020	0.015	0.017	0.440	230	270
9820	1	259	0.020	0.015	0.017	0.470	290	340
9821	1/0	259	0.020	0.015	0.017	0.515	350	415
9822	2/0	259	0.020	0.015	0.017	0.570	410	510
9823	3/0	259	0.020	0.015	0.017	0.625	480	630
9824	4/0	259	0.020	0.015	0.017	0.690	560	780

* Ampacity based on single conductor in free air, 30°C ambient.

NOTE: Alternate stranding and conductor material options do exist.

I

MG APPLIANCE WIRE 450°C (UL)/538°C (NON-UL), 600 VOLT

Construction

Conductor:
- 27% Nickel coated copper per ASTM B355; stranding per ASTM B8 (Class B), ASTM B173 (Class H) or ASTM B174 (Class K).

Insulation:
- Glass reinforced mica tapes.

Overall Jacket:
- White or tan braided glass yarn impregnated with flame, heat and moisture resistant finish.

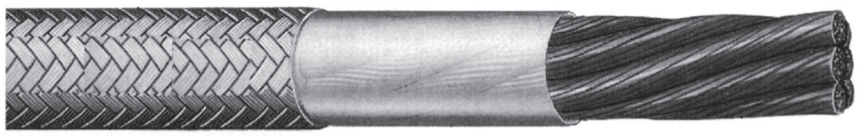
Glass Reinforced Mica Tape Insulation Provides:
- Excellent dielectric properties.
- Superior high temperature resistance.

Overall Glass Braid Jacket Provides:
- Moisture resistance.
- Flame resistance.
- Mechanical protection.

Applications:
- MG Appliance Wire is designed for use in wiring ovens or other high temperature equipment where temperature requirements do not exceed 450°C or 538°C.
- MG Appliance Wire is ideally suited for applications where extremely high temperatures are present, such as in the following industries:
  (a) Iron and Steel;
  (b) Glass;
  (c) OEM.

MG Appliance Wire:
- Is a very rugged construction.
- Is moisture and chemical resistant.
- Contains no asbestos.
- Is constructed of primarily non-combustible inorganic materials.
- Emits minimal smoke when burned.
- Possesses a superior ability to maintain circuit integrity under flames (singles have maintained circuit integrity for 30 hours in a conduit under flame conditions).
- Is flexible and easy to install.
- Nickel coated copper conductor maintains flexibility and conductivity at elevated temperatures.
- Class K & H stranded conductors provide additional flexibility.

Industry Approvals:
- MG Appliance Wire Listings: (UL) Style 5107 600 Volt Appliance Wire and CSA Class I Group A - 450°C.
- Passes the 70,000 BTU/hr and the 210,000 BTU/hr industry standard Vertical Cable Tray Flame Tests with circuit integrity for a minimum 2.5 hours.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	BRAID THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	INCHES	AMPS*	LBS/MFT
9830	18	16	0.025	0.007	0.110	31	12
9831	16	26	0.025	0.007	0.120	40	16
9832	14	41	0.025	0.007	0.135	55	22
9835	12	65	0.025	0.007	0.154	75	31
9836	10	105	0.030	0.017	0.208	100	52
9840	8	133	0.030	0.017	0.250	130	78
9841	6	133	0.030	0.017	0.290	175	115
9842	4	133	0.030	0.017	0.350	235	175
9843	2	133	0.035	0.020	0.445	315	260
9844	1	259	0.035	0.020	0.490	420	320
9845	1/0	259	0.035	0.020	0.515	490	400
9846	2/0	259	0.035	0.020	0.570	580	505
9847	3/0	259	0.035	0.020	0.630	675	620
9848	4/0	259	0.035	0.020	0.700	785	760
9849	500 MCM	427	0.040	0.020	1.075	1400	1770

* Ampacity based on single conductor in free air, 30°C ambient.

NOTE: MG is CSA, AWM, Class 1, Group A/B.

Recognized Component Underwriters Laboratories Inc.

Passes UL 70,000 BTU Flame Test

Passes 210,000 BTU Flame Test

SUPER HEAT 2000

IMPREGNATED GLASS BRAID INSULATORS - NATURAL AMBER TAPE WRAP - 27% NICKEL-CLAD COPPER CONDUCTORS - 600 VOLT

Construction

Conductors:
- 27% nickel-clad copper per ASTM B355, stranded per ASTM B174 (Class H) or ASTM B173 (Class K).

Tape Wrap:
- Natural Amber mica tape.

Construction:
- Conductors are cabled with inert, flame retardant fillers in the interstices for roundness and structural integrity, double-wrapped with natural amber tape, PTFE tape moisture barrier and covered with impregnated glass braid overall.

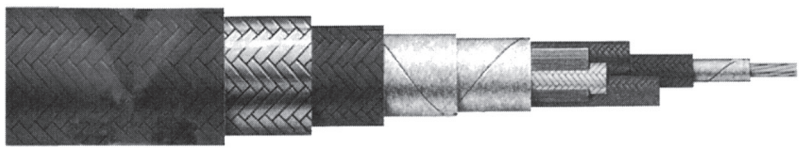
Jacket:
- Impregnated glass braid for structural strength, flexibility and resistance to moisture, heat and open flame.

Additional Shielding:
- 27% Nickel-coated copper braid shield.

Temperature Ratings:
- -320°F/-160°C to +3000°F; 843°F/450°C, UL, 1000°F/538°C, non-UL.
- Passes ETL Vertical Flame test, 3000°F for 30 minutes.

Applications:
- Control, Instrument, Lighting, Power and Circuits where exposure to fire is a critical risk. Specifically designed to maintain electrical integrity in those applications in which exposure to open flame or extremes of temperature could otherwise cause failures of serious or even disastrous results. In addition, it is uniquely engineered to withstand the effects of acids, alkalies, chemicals, moisture, oils and physical or mechanical abuse.

Characteristics:
- Its unique construction and materials provide extraordinary resistance to shock and flame and continuous operation in temperatures up to 1000°F/538°C, with low smoke and fumes emission, and it cools quickly. It remains flexible even when quick-frozen to -320°F/-160°C.
- Will not melt or flow at temperatures up to 3000°F.
- Impervious to moisture to 260°C.
- Highly resistant to radiation.



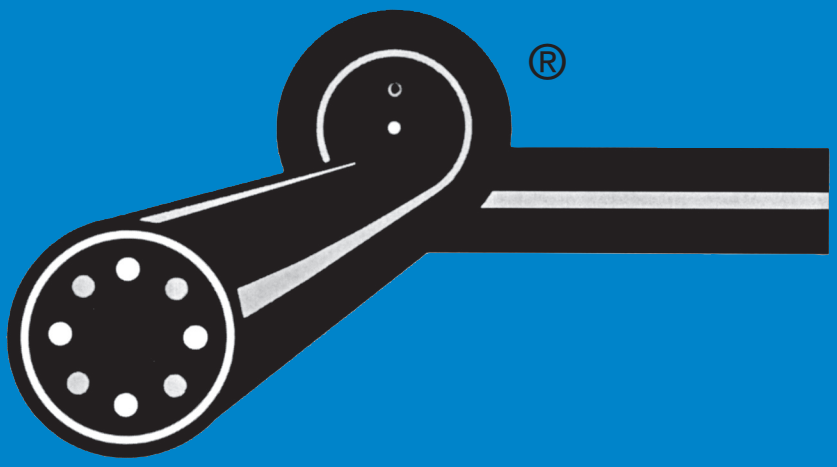
CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	NOMINAL O. D. INCHES	NOMINAL WEIGHT LBS./MFT
9951	22	2	0.232	38
9952	22	4	0.272	47
9953	22	6	0.328	71
9955	20	2	0.248	44
9956	20	4	0.292	55
9957	20	6	0.352	82
9958	18	1	0.160	20
9959	18	2	0.268	50
9960	18	4	0.316	67
9961	18	6	0.382	99
9962	16	1	0.164	24
9963	16	2	0.288	64
9964	16	4	0.340	85
9965	16	6	0.412	126
9966	14	1	0.190	30
9967	14	2	0.320	85
9968	14	4	0.378	122
9969	14	6	0.460	161
9970	12	1	0.208	42
9971	12	2	0.356	108
9972	12	4	0.422	166
9973	12	6	0.514	227
9974	10	1	0.234	63
9975	10	2	0.448	177
9976	10	4	0.534	279
9977	10	6	0.590	306
9978	8	1	0.268	77
9982	6	1	0.308	112
9986	4	1	0.365	167
9990	2	1	0.448	260

Color Code:

1/C Red
2/C Red, White
3/C Red, White, Blue
4/C Red, White, Blue, Green

I

ALUMINUM CABLE



OVERHEAD ALUMINUM SERVICE DROP CABLE

DUPLEX, TRIPLEX & QUADRUPLEX

Construction

Conductors:

- Conductors are concentrically stranded, compressed 1350-H19 aluminum.
- Insulated with either polyethylene or crosslinked polyethylene.
- Neutral messengers are concentrically stranded ACSR.
- One conductor is manufactured with an extruded ridge or striped conductor for phase identification on Quadruplex.

Application For Duplex:

- Primarily used for 120-volt overhead service applications such as street lighting, outdoor lighting, and temporary service. To be used at voltages of 600 volts or less at conductor temperatures not to exceed 75°C.

Application For Triplex:

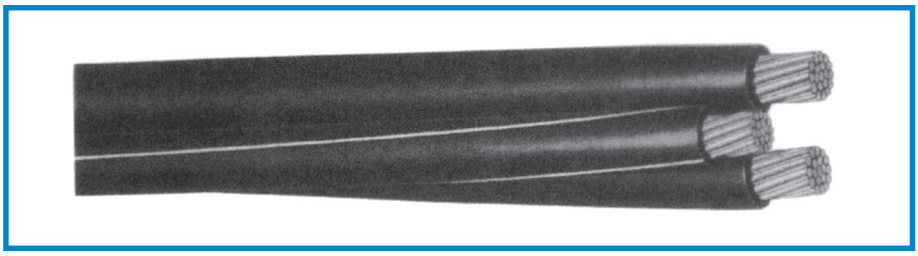
- Used to supply power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for crosslinked polyethylene insulated conductors (on special order).

Application For Quadruplex:

- Used to supply 3-phase power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 9O°C for crosslinked polyethylene insulated conductors (on special order).

Specifications:

- Service drop cable meets or exceeds the following ASTM specifications:
  (a) B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
  (b) B-231 Aluminum Conductors, Concentric-Lay-Stranded.
  (c) B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR)
- Service drop cable meets or exceeds all applicable requirements of ICEA S-61-402 for polyethylene insulated conductors and ICEA S-66-524 for crosslinked polyethylene.



CUSTOM CATALOG NUMBER	CODE NAME	PHASE CONDUCTOR			NEUTRAL MESSENGER			CURRENT	NOMINAL WEIGHT
		SIZE (AWG)	STRAND	NOM. INSUL. THICK (INCHES)	SIZE (AWG)	STRAND	RATED STRENGTH	AMPS[1]	LBS/MFT
DUPLEX (1 INSULATED - 1 BARE)									
29003	SHEPHERD	6	7	0.045	6	6/1	1,190	70	75
29005	TERRIER	4	7	0.045	4	6/1	1,860	90	114
TRIPLEX (2 INSULATED - 1 BARE)									
29100	VOLUTA	6	7	0.045	6	6/1	1,190	70	113
29101	PERIWINKLE	4	7	0.045	4	6/1	1,860	90	170
29103	CONCH	2	7	0.045	2	6/1	2,850	120	258
29104	NERITINA	1/0	7	0.060	1/0	6/1	4,380	160	416
29105	RUNCINA	2/0	7	0.060	2/0	6/1	5,310	185	514
29106	ZUZARA	4/0	19	0.060	4/0	6/1	8,350	245	790
QUADRUPLEX (3 INSULATED - 1 BARE)									
29199	CHOLA	6	7	0.045	6	6/1	1,190	60	152
29200	HACKNEY	4	7	0.045	4	6/1	1,860	80	226
29201	PALOMINO	2	7	0.045	2	6/1	2,850	105	342
29202	COSTENA	1/0	19	0.060	1/0	6/1	4,380	140	551
29203	GRULLO	2/0	I9	0.060	2/0	6/1	5,310	160	679
29204	APPALOOSA	4/0	19	0.060	4/0	6/1	8,350	210	1039

1 Conductor temperature of 75°C; ambient temperatures of 40°C; emissivity 0.9; 2ft./sec. wind in sun.

J

UNDERGROUND RESIDENTIAL DISTRIBUTION TYPE URD - 600 VOLT - XLPE - 90°C FOR DIRECT BURIAL

Construction

Conductor:
- Compact stranded 8000 series aluminum alloy.

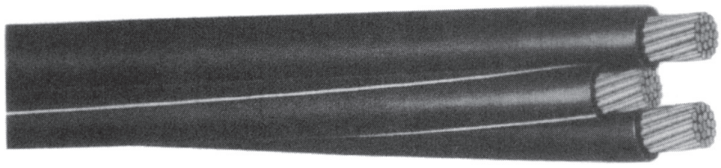
Insulation:
- Crosslinked Polyethylene (XLPE).
- Type USE-2.

Conductor Identification:
- Black phase conductors.
- Triple yellow striped neutral.

Construction:
- Multiplexed cable conductors with a left hand lay in Triplex (3 conductor) assembly.

Applications:
- Underground distribution from a supply source to the service entrance equipment of a building.
- Maximum operating temperature of 90°C in dry and wet locations.
- Direct burial application or in ducts.
- 600 volts.

Industry Standards:
- UL Standard 854.
- ICEA S-66-524.
- REA approved.



CUSTOM CATALOG NUMBER	ALUMINUM ASSOCIATION CODE WORD	PHASE CONDUCTORS		NEUTRAL CONDUCTORS		NOMINAL O.D. (IN)	ALLOWABLE AMPACITY		SHIPPING WEIGHT PER MFT.
		COND. SIZE/ STRANDING	INSULATION (MILS)	COND. SIZE/ STRANDING	INSULATION (MILS)		DIRECT BURIAL	IN DUCTS	
ALUMINUM TRIPLEXED URD 600 VOLT									
29299	ERSKINE	6-7	60	6-7	60	0.625	95	70	152
29300	VASSAR	4-7	60	4-7	60	0.754	125	90	203
29301	STEPHENS	2-7	60	4-7	60	0.824	165	120	264
29302	RAMAPO	2-7	60	2-7	60	0.874	165	120	294
29303	BRENAU	1/0-19	80	2-7	60	1.064	215	160	408
29304	BERGEN	1/0-19	80	1/0-19	80	1.130	215	160	465
29305	CONVERSE	2/0-19	80	1-19	80	1.174	245	180	502
29306	HUNTER	2/0-19	80	2/0-19	80	1.228	245	180	560
29307	HOLLINS	3/0-19	80	1/0-19	80	1.291	280	205	606
29308	SWEETBRIAR	4/0-19	80	2/0-19	80	1.389	315	240	739
29309	MONMOUTH	4/0-19	80	4/0-19	80	1.457	315	240	828
29311	PRATT	250-37	95	3/0-19	80	1.538	345	265	893
29310	WESLEYAN	350-37	95	4/0-19	80	1.736	415	320	1166
29312	RIDER	500-37	95	350-37	95	2.015	495	395	1663

The above data are subject to normal manufacturing tolerances.
Allowable Ampacity: 90°C conductor temperature, 20°C ambient, Rho=90, 100% load factor with neutral carrying only unbalanced load.

Construction

Conductor:
- Compact stranded 8000 series aluminum alloy.

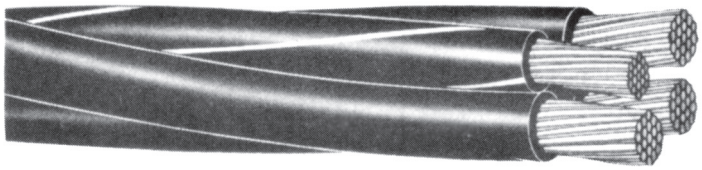
Insulation:
- Crosslinked Polyethylene (XLPE).
- Type USE-2.

Conductor Identification:
- Black phase conductors.
- Triple yellow striped neutral.

Construction:
- Multiplexed cable conductors with a left hand lay in Quadruplex (4 conductor) assembly.

Applications:
- Underground distribution from a supply source to the service entrance equipment of a building.
- Maximum operating temperature of 90°C in dry and wet locations.
- Direct burial application or in ducts.
- 600 volts.

Industry Standards:
- UL Standard 854.
- ICEA S-66-524.
- REA approved.



CUSTOM CATALOG NUMBER	ALUMINUM ASSOCIATION CODE WORD	PHASE CONDUCTORS		NEUTRAL CONDUCTORS		NOMINAL O.D. (IN)	ALLOWABLE AMPACITY		SHIPPING WEIGHT PER MFT.
		COND. SIZE/ STRANDING	INSULATION (MILS)	COND. SIZE/ STRANDING	INSULATION (MILS)		DIRECT BURIAL	IN DUCTS	
ALUMINUM QUADRUPLEXED URD 600 VOLT									
29320	TULSA	4-7	60	4-7	60	0.945	120	85	270
29321	DYKE	2-7	60	4-7	60	0.945	155	115	361
29322	WITTENBERG	2-7	60	2-7	60	0.955	155	115	391
29323	NOTRE DAME	1/0-19	80	2-7	60	1.250	200	150	562
29324	PURDUE	1/0-19	80	1/0-19	80	1.265	200	150	619
29325	SYRACUSE	2/0-19	80	1-19	80	1.370	225	170	688
29326	DAVIDSON	3/0-19	80	3/0-19	80	1.490	250	195	903
29327	WAKE FOREST	4/0-19	80	2/0-19	80	1.587	290	225	1014
29328	EARLHAM	4/0-19	80	4/0-19	80	1.635	290	225	1103

The above data are subject to normal manufacturing tolerances.
Allowable Ampacity: 90°C conductor temperature, 20°C ambient, Rho=90, 100% load factor with neutral carrying only unbalanced load.

J

ALUMINUM TYPE MC

Construction

Conductor:

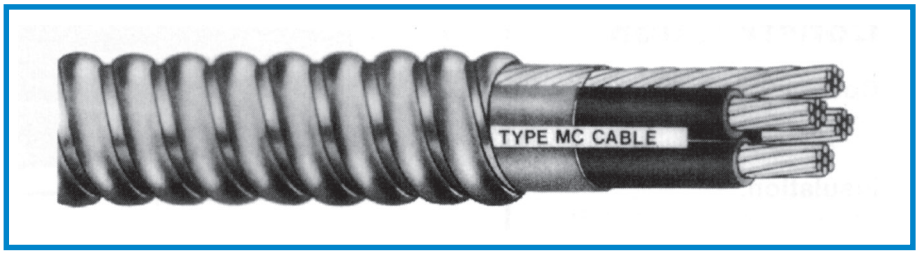
- Three or four insulated aluminum conductors (phase identified) plus a bare equipment grounding conductor inside an aluminum alloy armor.
- All conductors are (AA 8000 series electrical grade alloy) with Type XHHW insulation (UL Standard 44).
- Aluminum MC Cable is designed mainly for above ground application.

Application:

- Aluminum MC Cable is listed with UL (Standard # 1479) for "through-penetration" of fire rated floors or walls.
- Aluminum MC Cable meets the requirements of UL 1569, Metal Clad Cables. Rated at 600 Volts, the cable is approved for use in accordance with Article 334 and other applicable portions of the NEC.

Features:

- Aluminum MC cable gives you the advantage in total installed cost savings. It is quicker and easier to install than conventional pipe and wire. The lightweight aluminum armor means MC cable weighs less than MC cable with a steel armor and is also easier to strip back. This strong yet flexible aluminum armor over the XHHW conductors allows for ease of installation in one step. You can save money in time and labor, since conduit cutting and assembly and the pulling of conductors through conduit is no longer necessary.
- The conductors provided within the armor are aluminum alloy (AA 8000 series) with Type XHHW insulation. Aluminum MC meets the requirements of Section 310-14 of the 1990 NEC. Type XHHW is rated at 90°C for dry locations and 75°C wet.



CUSTOM CATALOG NUMBER	SIZE	GROUNDING CDR SIZE	NOMINAL DIAMETER (INCHES)		CURRENT (AMPS)		NOMINAL WEIGHT
	AWG/MCM	AWG/MCM	W/O JKT	W/JKT	75°C	90°C	LBS/MFT
THREE CONDUCTORS WITH GROUNDING CONDUCTOR							
13300	6	6	0.790	0.890	53	61	327
13301	4	6	0.880	0.980	70	81	400
13302	2	4	1.010	1.110	92	108	526
13303	1	4	1.090	1.190	108	126	620
13304	1/0	4	1.160	1.260	125	145	705
13305	2/0	4	1.230	1.330	144	168	812
13306	3/0	4	1.320	1.420	166	194	943
13307	4/0	2	1.450	1.550	192	224	1136
13308	250	2	1.610	1.730	214	250	1406
13309	300	2	1.700	1.820	240	280	1591
13310	350	1	1.810	1.930	265	309	1796
13311	400	1	1.880	2.000	287	334	1974
13312	500	1	2.020	2.140	330	385	2326
13313	600	1/0	2.240	2.360	368	429	2775
13314	700	1/0	2.350	2.500	405	473	3184
13315	750	1/0	2.410	2.560	424	495	3355
FOUR CONDUCTORS WITH GROUNDING CONDUCTOR							
13325	6	6	0.880	0.980	42	49	386
13326	4	6	0.980	1.080	56	65	479
13327	2	4	1.120	1.220	74	86	639
13328	1	4	1.230	1.330	86	101	759
13329	1/0	4	1.310	1.410	100	116	872
13330	2/0	4	1.390	1.490	115	134	1012
13331	3/0	4	1.540	1.660	133	155	1275
13332	4/0	2	1.690	1.810	154	179	1526
13333	250	2	1.830	1.950	171	200	1764
13334	300	2	1.940	2.060	192	224	2008
13335	350	1	2.050	2.170	212	247	2268
13336	400	1	2.140	2.260	230	267	2502
13337	500	1	2.310	2.460	264	308	3032
13338	600	1/0	2.560	2.710	294	343	3620

* Based on Table 310-31,1987 NEC (Type XHHW conductors). See termination provisions for conductor sizing as given in UL Electrical Construction Material Directory, "Equipment for Use in Ordinary Locations."
Derating for number of conductors may not be necessary in all applications, allowing a higher ampacity than shown above for 4 conductor assemblies. See Note 10 to Notes to Tables 310-16 through 310-31, 1987 NEC.

NOTE: Galvanized steel armor is available on special order.

J

AAC - ALL ALUMINUM CONDUCTOR AND ALUMINUM TIE WIRE

Construction

Application:

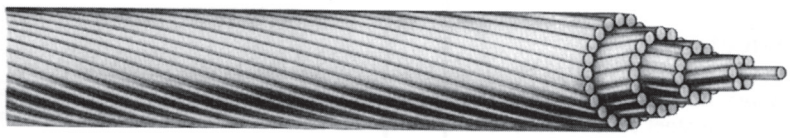
- For use in overhead transmission and distribution systems, and as bus connections in substations and switchyards. Solid conductors used for mechanical and grounding applications.

Standards: AAC

- ASTM B-230 (Aluminum Wire, 1350-H19 for electrical purpose).
- ASTM B-231 (Aluminum conductor, concentric lay stranded).

Standards: Tie Wire

- ASTM B-609 (Soft Aluminum, 1350-0 for electrical purposes).



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	CODE NAME	STRAND	STRAND CLASS	NOMINAL DIAMETER (INCHES) INDIV. WIRES	NOMINAL DIAMETER (INCHES) OVERALL	CROSS SEC. AREA SQUARE INCHES	RATED STRENGTH POUNDS	DC RESIST. OHMS/1000 FT. 20°C	CURRENT AMPS*	NOMINAL WEIGHT LBS/MFT
AAC - ALL ALUMINUM											
29700	6	Peachbell	7	A	0.0612	0.1840	0.0206	563	.6580	96	25
29702	4	Rose	7	A	0.0772	0.2320	0.0328	881	.4140	121	39
29704	2	Iris	7	AA,A	0.0974	0.2920	0.0521	1350	.2600	163	62
29706	1	Pansy	7	AA,A	0.1093	0.3280	0.0657	1640	.2070	—	79
29708	1/0	Poppy	7	AA,A	0.1228	0.3680	0.0829	1990	.1640	220	99
29710	2/0	Aster	7	AA,A	0.1379	0.4140	0.1045	2510	.1300	255	125
29712	3/0	Phlox	7	AA,A	0.1548	0.4640	0.1318	3040	.1030	297	158
29714	4/0	Oxlip	7	AA,A	0.1739	0.5220	0.1662	3830	.0817	346	199
29716	250	Sneezewart	7	A	0.1890	0.5670	0.1964	4520	.0691	—	235
29718	250	Valerian	19	A	0.1147	0.5740	0.1964	4660	.0691	—	235
29720	266.8	Daisy	7	AA	0.1953	0.5860	0.2095	4830	.0648	403	251
29722	266.8	Laurel	19	A	0.1185	0.5930	0.2095	4970	.0648	403	251
29724	336.4	Tulip	19	A	0.1331	0.6660	0.2642	6150	.0514	468	316
29726	350	Daffodil	19	A	0.1357	0.6790	0.2749	6390	.0494	—	329
29728	397.5	Canna	19	AA,A	0.1447	0.7240	0.3122	7110	.0435	522	373
29730	477	Cosmos	19	AA	0.1584	0.7930	0.3746	8360	.0362	588	448
29732	500	Zinnia	19	AA	0.1622	0.8110	0.3927	8760	.0346	—	469
29734	500	Hyacinth	37	A	0.1162	0.8130	0.3927	8760	.0346	—	469
29736	556.5	Dahlia	19	AA	0.1711	0.8560	0.4371	9750	.0311	650	522
29738	636	Orchid	37	AA,A	0.1311	0.9180	0.4995	11400	.0272	709	597
29740	750	Petunia	37	AA	0.1424	0.9970	0.5891	13100	.0230	—	704
29742	795	Arbutus	37	AA	0.1446	1.0260	0.6244	13900	.0217	819	746
29744	954	Magnolia	37	AA	0.1606	1.1240	0.7493	16400	.0181	920	896
29746	1000	Hawkweed	37	AA	0.1644	1.1500	0.7854	17200	.0173	—	939
29748	1033.5	Bluebell	37	AA	0.1671	1.1700	0.8117	17700	.0167	968	970
29750	1033.5	Larkspur	61	A	0.1302	1.1720	0.8117	18300	.0167	968	970
29752	1113	Marigold	61	AA,A	0.1351	1.2160	0.8742	19700	.0155	—	1045
29754	1192.5	Hawthorn	61	AA,A	0.1398	1.2580	0.9366	21100	.0145	—	1119
29756	1272	Narcissus	61	AA,A	0.1444	1.3000	0.9990	22000	.0136	1103	1194
29758	1590	Coreopsis	61	AA	0.1614	1.4540	1.2490	27000	.0109	1267	1493
TIE-WIRE											
29780	6	—	Solid	—	—	0.1620	0.0206	232	—	—	24
29782	4	—	Solid	—	—	0.2043	0.0328	369	—	—	38
29784	2	—	Solid	—	—	0.2576	0.0521	586	—	—	61

* Per NEC Table B-310-4, Based on conductor temperature of 80°C; ambient temperature of 40°C; 2 ft./sec. wind.

J

ACSR ALUMINUM CONDUCTOR - STEEL REINFORCED

Construction

Conductor:

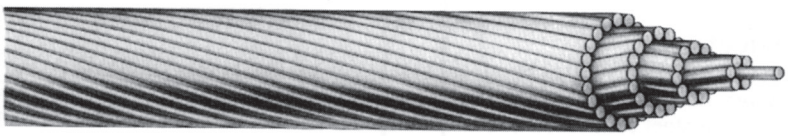
- Aluminum alloy 1350-H-19 wires, concentrically stranded about a steel core. Core wire for ACSR is available with class A, B, or C galvanizing; “aluminized” aluminum coated (AZ); or aluminum-clad (AW).
- Additional corrosion protection is available through the application of grease to the corer or infusion of the complete cable with grease.

Application:

- Used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.

Standards: ACSR

- ASTM B-230 (Aluminum Wire, 1350-H19 for Electrical Purposes).
- ASTM B-231 (Aluminum Conductors, Concentric-Lay-Stranded).
- ASTM B-232 (Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced [ACSR]).
- ASTM B-341 (Aluminum-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced [ACSR/AZ]).
- ASTM B-498 (Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced [ACSR/AZ]).
- ASTM B-500 (Zinc-Coated and Aluminum Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced [ACSR]).



CUSTOM PART NUMBER	CODE WORD	SIZE AWG	STRAND (ALUM/ STEEL)	DIAMETER				WEIGHT PER 1000 FT. (LBS)	RATED BREAKING STRENGTH (LBS)	RESISTANCE OHMS/1000 FEET		RATING (AMPS)
				INDIV. WIRES		STEEL CORE	COMPLETE CABLE OD			DC @20°C	AC @75C°	
				Alum.	Steel							
ACSR ALUMINUM CONDUCTOR STEEL REINFORCED												
29800	SWAN	4	6/1	.0834	.0834	.0834	.250	57.4	1,860	.403	.515	140
29801	SWANATE	4	7/1	.0772	.1029	.1029	.257	67.0	2,360	.399	.519	140
29802	SPARROW	2	6/1	.1052	.1052	.1052	.316	91.3	2,850	.254	.332	184
29803	SPARATE	2	7/1	.0974	.1299	.1299	.325	105.7	3,640	.251	.338	184
29804	RAVEN	1/0	6/1	.1327	.1327	.1327	.398	145.3	4,380	.149	.217	242
29805	QUAIL	2/0	6/1	.1489	.1489	.1489	.447	183.0	5,300	.126	.176	276
29806	PIGEON	3/0	6/1	.1672	.1672	.1672	.502	230.7	6,620	.100	.144	315
29807	PENGUIN	4/0	6/1	.1878	.1878	.1878	.563	291.1	8,350	.0795	.119	357
29808	WAXWING	266.8	18/1	.1217	.1217	.1217	.609	289.5	6,880	.0643	.0787	449
29809	PATRIDGE	266.8	26/7	.1013	.0788	.2364	.642	367.2	11,300	.0637	.0779	475
29810	MERLIN	336.4	18/1	.1367	.1367	.1367	.683	365.2	8,680	.0510	.0625	519
29811	LINNET	336.4	26/7	.1137	.0884	.2642	.720	462.5	14,100	.0505	.0618	529
29812	ORIOLE	336.4	30/7	.1059	.1059	.3117	.741	527.1	17,800	.05052	.0613	535
29813	IBIS	397.5	26/7	.1236	.0961	.2882	.783	546.6	16,300	.0428	.0523	587
29814	PELICAN	477.0	18/1	.1628	.1628	.1628	.814	518.0	11,800	.0360	.0442	646
29815	HAWK	477.0	26/7	.1354	.1053	.3159	.858	656.0	19,500	.0356	.0436	659
29816	DOVE	556.5	26/7	.1463	.1138	.3414	.927	766.0	22,500	.0306	.0375	726
29817	GROSBEAK	636.0	26/7	.1564	.1216	.3648	.990	874.1	25,200	.0267	.0328	789

ALUMINUM SERVICE ENTRANCE - TYPE SE, STYLE R

600 VOLT - 90°C WET OR DRY - NEC® ARTICLE 338

Construction

Conductor:
- Compact stranded 8000 series aluminum alloy.

Insulation:
- Type XHHW-2.

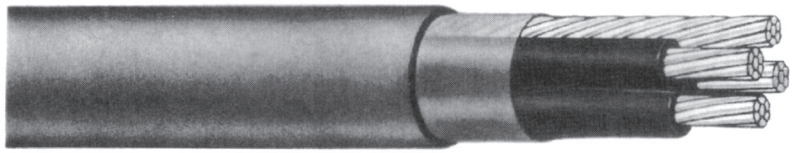
Conductor Identification:
- Base colored insulation: black, white, red and blue (5-wire).

Construction:
- Three or four insulated conductors and a bare ground cabled together.
- Covered with a reinforced binder tape.

Jacket:
- Sunlight resistant gray PVC.

Applications:
- Above ground service entrance, panel feeder in multiple dwellings, range and dryer and other branch circuits.
- Maximum operating temperature of phase conductors not to exceed 90°C in wet or dry locations.
- 600 Volts, approved for use as specified by the NEC®.

Industry Standards:
- UL Standard 854.
- Federal specification JC-30B.
- ASTM Standards B-800 and B-801.



CUSTOM CATALOG NUMBER	INSULATED CONDUCTOR		BARE CONDUCTOR		NOMINAL O.D. (INCHES)	SHIPPING WEIGHT
	COND. SIZE AWG	NO. OF STRANDS	COND. SIZE AWG	NO. OF STANDS		LBS./MFT
THREE INSULATED CONDUCTORS WITH BARE GROUND (4 CONDUCTOR)						
29375	8/3	7	8	7	0.609	140
29376	6/3	7	6	7	0.708	190
29377	4/3	7	6	7	0.814	250
29378	2/3	7	4	7	0.949	360
29379	1/3	19	3	7	1.072	460
29380	1/0-3	19	2	7	1.161	550
29381	2/0-3	19	1	19	1.260	660
29382	3/0-3	19	1/0	19	1.374	810
29383	4/0-3	19	2/0	19	1.502	980
FOUR INSULATED CONDUCTORS WITH BARE GROUND (5 CONDUCTOR)						
29400	2/4	7	4	7	0.950	465
29403	2/0-4	19	1	19	1.290	825
29410	4/0-4	19	2/0	19	1.600	1250

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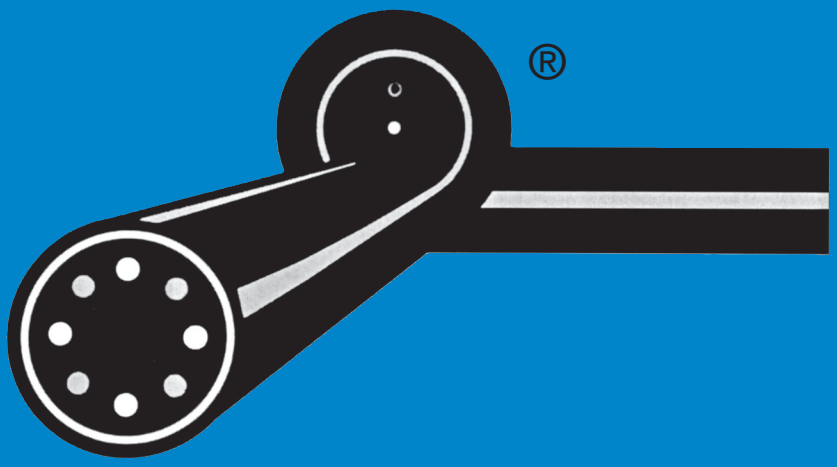
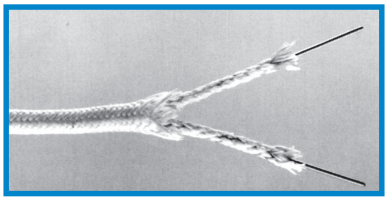
INSULATED THERMOCOUPLE WIRE



INSULATED THERMOCOUPLE WIRE

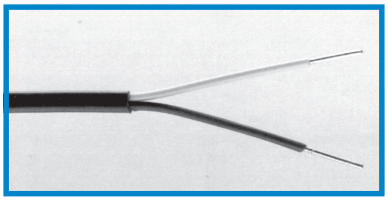
ANSI Type E Chromel/Constantan (2 Conductor)



Insulation Color Code:
Positive: Purple
Negative: Red
Overall: Brown

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54000	20	Ceramic Braid	Ceramic Braid	Solid	2200	2600	.125 x .195	16
54001	20	Hi Temp	Hi Temp	Solid	1200	1500	.085 x .145	15
54002	20	Fiberglass	Fiberglass	Solid	950	1200	.058 x .105	9
54003	20	Fiberglass	Fiberglass	Strd.	950	1200	.065 x .125	9
54004	24	Fiberglass	Fiberglass	Solid	950	1200	.042 x .070	5
54005	20	FEP	FEP	Solid	400	500	.067 x .115	11
54005S	20	FEP Twist/Shld	FFEP Twist/Shld	Solid	400	500	.135	20
54006	24	FEP	FEP	Solid	400	500	.055 x .090	7

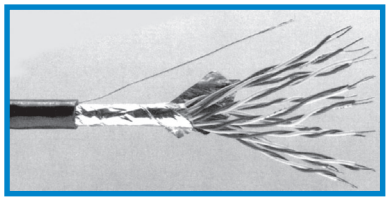
ANSI Type EX Chromel/Constantan (2 Conductor)



Insulation Color Code:
Positive: Purple
Negative: Red
Overall: Purple

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54020	16	Fiberglass	Fiberglass	Solid	400		.087 x .155	18
54021	20	Fiberglass	Fiberglass	Solid	400		.058 x .105	9
54022	16	FEP	FEP	Solid	400		.107 x .158	32
54023	20	FEP	FEP	Solid	400		.072 x .124	11
54024	16	PVC	PVC	Solid	220		.120 x .207	26
54024S	16	PVC Twist/Shld	PVC Twist/Shld	Solid	220		.250	39
54025	16	PVC	PVC	Str.	220		.140 x .230	26
54026	20	PVC	PVC	Solid	220		.095 x .150	14
54026S	20	PVC Twist/Shld	PVC Twist/Shld	Solid	220		.165	22
54027	20	PVC	PVC	Str.	220		.105 x .170	16

Thermocouple Extension Cable - Overall Shielded
Type EX Cable Chromel/Constantan UL PLTC 300 Volt



Construction

- PVC Insulation & Jacket
- 20 AWG Solid Conductors
- Singles Insulation: 15 mils 105°C PVC
- Jacket and Individual Pairs are ANSI MC96.1
- Twisted Pairs
- One conductor of each pair is numbered
- Overall Shield: Aluminum/Polyester
- Overall Drain plus communications wire
- Jacket: 90°C FR-PVC

CUSTOM CATALOG NUMBER	NO. OF PAIRS	NOMINAL OUTER JACKET THICKNESS	NOMINAL O.D. (Inches)	MINIMUM BENDING RADIUS (Inches)	MAXIMUM PULLING TENSION (lbs.)	WT/MFT
54030	1	.035	.220	1.45	26	27
54031	2	.042	.322	2.00	40	50
54032	4	.042	.370	2.50	75	76
54033	6	.052	.440	2.70	105	110
54034	8	.052	.475	3.00	142	129
54035	10	.052	.540	3.25	170	155
54036	12	.052	.560	3.25	210	175
54037	16	.062	.645	3.70	275	230
54038	20	.062	.670	4.00	330	280
54039	24	.062	.745	4.80	405	325
54040	36	.072	.890	6.00	600	470
54041	50	.072	.995	6.00	830	640

*** Individual and overall shield also available upon request. Please specify when ordering.**

K

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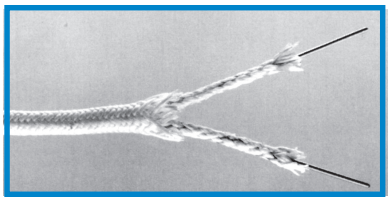
INSULATED THERMOCOUPLE WIRE

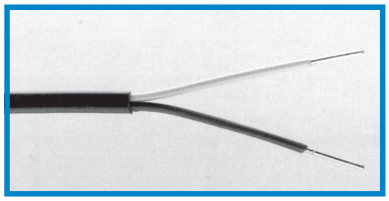
ANSI Type J Iron/Constantan (2 Conductor)



Insulation Color Code:
Positive: White
Negative: Red
Overall: Brown
Also available in stranded configuration.

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54100	20	Ceramic Braid	Ceramic Braid	Solid	2200	2600	.125 x .195	16
54101	16	Hi Temp	Hi Temp	Solid	1200	1500	.105 x .185	20
54102	20	Hi Temp	Hi Temp	Solid	1200	1500	.085 x .145	15
54103	24	Hi Temp	Hi Temp	Solid	1200	1500	.075 x .120	10
54104	16	Fiberglass	Fiberglass	Solid	950	1200	.087 x .155	18
54105	20	Fiberglass	Fiberglass	Solid	950	1200	.058 x .105	9
54107	24	Fiberglass	Fiberglass	Solid	950	1200	.042 x .070	5
54108	20	FEP	FEP	Solid	400	500	.072 x .124	11
54109	24	FEP	FEP	Solid	400	500	.060 x .100	7

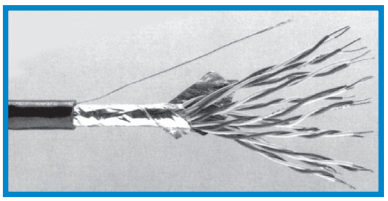
ANSI Type JX Iron/Constantan (2 Conductor)



Insulation Color Code:
Positive: White
Negative: Red
Overall: Yellow
Available in stranded configuration*
Available with overall shield*

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54130	16	Fiberglass	Fiberglass	Solid	400		.087 x .155	18
54131	20	Fiberglass	Fiberglass	Solid	400		.058 x .105	9
54132	16	FEP	FEP	Solid	400		.107 x .158	32
54132S	16	FEP	FEP Twist/Shld	Solid	400		.180	38
54133	20	FEP	FEP	Solid	400		.072 x .124	11
54133S	20	FEP	FEP Twist/Shld	Solid	400		.146	22
54134	16	PVC	PVC	Solid	400		.120 x .207	26
54136	20	PVC	PVC	Solid	220		.095 x .150	14

Thermocouple Extension Cable - Overall Shielded Type JX Cable Iron/Constantan UL PLTC 300 Volt



Construction

- PVC Insulation & Jacket
- 20 AWG Solid extension wire
- Singles Insulation: 15 mils 105°C PVC
- Jacket and Individual Pairs are ANSI MC96.1
- Twisted Pairs
- One conductor of each pair is numbered
- Overall Shield: Aluminum/Polyester
- Overall drain plus communications wire
- Jacket: 90°C FR-PVC

CUSTOM CATALOG NUMBER	NO. OF PAIRS	NOMINAL OUTER JACKET THICKNESS	NOMINAL O.D. (Inches)	MINIMUM BENDING RADIUS (Inches)	MAXIMUM PULLING TENSION (lbs.)	WT/MFT
54150	1	.035	.220	1.45	26	27
54151	2	.042	.322	2.00	40	50
54152	4	.042	.370	2.50	75	76
54153	6	.052	.440	2.70	105	110
54154	8	.052	.475	3.00	142	129
54155	10	.052	.540	3.25	170	155
54156	12	.052	.560	3.25	210	175
54157	16	.062	.645	3.70	275	230
54158	20	.062	.670	4.00	330	280
54159	24	.062	.745	4.80	405	325
54160	36	.072	.890	6.00	600	470
54161	50	.072	.995	6.00	830	640

*** Individual and overall shield also available upon request. Please specify when ordering.**

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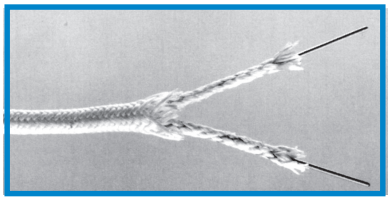
INSULATED THERMOCOUPLE WIRE

ANSI Type K Chrome/Alumel (2 Conductor)

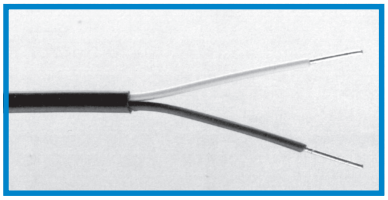


Insulation Color Code:
Positive: Yellow
Negative: Red
Overall: Brown

Also available in stranded configuration.*

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54300	16	Ceramic Braid	Ceramic Braid	Solid	2200	2600	.120 x .210	28
54301	20	Ceramic Braid	Ceramic Braid	Solid	2200	2600	.110 x .180	14
54302	16	Hi Temp	Hi Temp	Solid	1200	1500	.105 x .185	20
54303	20	Hi Temp	Hi Temp	Solid	1200	1500	.085 x .145	15
54304	24	Hi Temp	Hi Temp	Solid	1200	1500	.075 x .120	10
54305	16	Fiberglass	Fiberglass	Solid	950	1200	.087 x .155	25
54306	20	Fiberglass	Fiberglass	Solid	950	1200	.058 x .105	9
54308	24	Fiberglass	Fiberglass	Solid	950	1200	.042 x .070	5
54309	20	FEP	FEP	Solid	400	500	.067 x .115	11
54309S	20	FEP	FEP Twist/Shld	Solid	400	500	.135	20
54310	20	FEP	FEP	Solid	400	500	.055 x .090	7

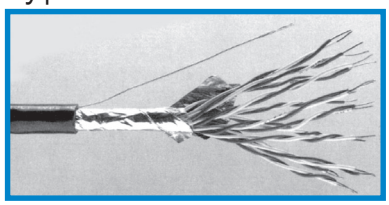
ANSI Type KX Chrome/Alumel (2 Conductor)



Insulation Color Code:
Positive: Yellow
Negative: Red
Overall: Yellow
Available in stranded configuration.*
Available with overall shield.*

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54330	16	Fiberglass	Fiberglass	Solid	400		.087 x .155	18
54331	20	Fiberglass	Fiberglass	Solid	400		.058 x .105	9
54332	16	FEP	FEP	Solid	400		.107 x .158	32
54333	20	FEP	FEP	Solid	400		.072 x .124	11
54334	16	PVC	PVC	Solid	220		.120 x .207	26
54334S	16	PVC	PVC Twist/Shld	Solid	220		.250	39
54336	20	PVC	PVC	Solid	220		.095 x .150	14
54336S	20	PVC	PVC Twist/Shld	Solid	220		.165	22

Thermocouple Extension Cable - Overall Shielded
Type KX Cable Chrome/Alumel UL PLTC 300 Volt



Construction

- PVC Insulation & Jacket
- 20 AWG Solid extension wire
- Singles Insulation: 15 mils 105°C PVC
- Jacket and Individual Pairs are ANSI MC96.1
- Twisted Pairs
- One conductor of each pair is numbered
- Overall Shield: Aluminum/Polyester
- Overall drain plus communications wire
- Jacket: 90°C FR-PVC

CUSTOM CATALOG NUMBER	NO. OF PAIRS	NOMINAL OUTER JACKET THICKNESS	NOMINAL O.D. (Inches)	MINIMUM BENDING RADIUS (Inches)	MAXIMUM PULLING TENSION (lbs.)	WT/MFT
54350	1	.035	.220	1.45	26	27
54351	2	.042	.322	2.00	40	50
54352	4	.042	.370	2.50	75	76
54353	6	.052	.440	2.70	105	110
54354	8	.052	.475	3.00	142	129
54355	10	.052	.540	3.25	170	155
54356	12	.052	.560	3.25	210	175
54357	16	.062	.645	3.70	275	230
54358	20	.062	.670	4.00	330	280
54359	24	.062	.745	4.80	405	325
54360	36	.072	.890	6.00	600	470
54361	50	.072	.995	6.00	830	640

*** Individual and overall shield also available upon request. Please specify when ordering.**

K

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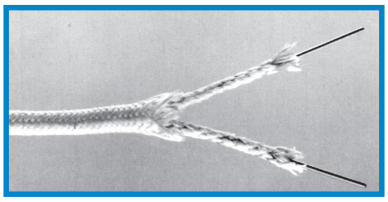
INSULATED THERMOCOUPLE WIRE

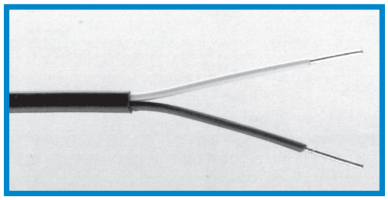
ANSI Type T Copper/Constantan



Insulation Color Code:
Positive: Blue
Negative: Red
Overall: Brown

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54400	20	Fiberglass	Fiberglass	Solid	950	1200	.058 x .105	9
54401	20	Fiberglass	Fiberglass	Str.	950	1200	.065 x .125	9
54402	24	Fiberglass	Fiberglass	Solid	950	1200	.042 x .070	5
54403	20	FEP	FEP	Solid	400	500	.067 x .115	11
54404	24	FEP	FEP	Solid	400	500	.055 x .090	7

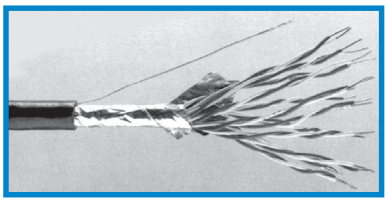
ANSI Type TX Copper/Constantan



Insulation Color Code:
Positive: Blue
Negative: Red
Overall: Blue

CUSTOM CATALOG NUMBER	SIZE	INSULATION		TYPE	TEMP (°F)		NOMINAL SIZE	WT/ MFT
	AWG/MCM	SINGLES	JACKET		CONTINUOUS	INTERMITTENT		
54430	16	Fiberglass	Fiberglass	Solid	400		.087 x .155	18
54431	20	Fiberglass	Fiberglass	Solid	400		.058 x .105	9
54432	16	FEP	FEP	Solid	400		.107 x .158	32
54432S	16	FEP	FEP Twist/Shld	Solid	400		.180	38
54433	20	FEP	FEP	Solid	400		.072 x .124	11
54433S	20	FEP	FEP Twist/Shld	Solid	400		.146	22
54434	16	PVC	PVC	Solid	220		.120 x .207	26
54434S	16	PVC	PVC Twist/Shld	Solid	220		.250	39
54435	16	PVC	PVC	Str.	220		.140 x .230	26
54435S	20	PVC	PVC Twist/Shld	Solid	220		.095 x .150	14
54436	20	PVC	PVC	Solid	220		.165	22
54437	20	PVC	PVC	Str.	220		.105 x .170	16

Thermocouple Extension Cable - Overall Shielded
Type TX Cable Copper/Constantan UL PLTC 300 Volt



Construction

- PVC Insulation & Jacket
- 20 AWG Solid extension wire
- Singles Insulation: 15 mils 105°C PVC
- Jacket and Individual Pairs are ANSI MC96.1
- Twisted Pairs
- One conductor of each pair is numbered
- Overall Shield: Aluminum/Polyester
- Overall drain plus communications wire
- Jacket: 90°C FR-PVC

CUSTOM CATALOG NUMBER	NO. OF PAIRS	NOMINAL OUTER JACKET THICKNESS	NOMINAL O.D. (Inches)	MINIMUM BENDING RADIUS (Inches)	MAXIMUM PULLING TENSION (lbs.)	WT/MFT
54450	1	.035	.220	1.45	26	27
54451	2	.042	.322	2.00	40	50
54452	4	.042	.370	2.50	75	76
54453	6	.052	.440	2.70	105	110
54454	8	.052	.475	3.00	142	129
54455	10	.052	.540	3.25	170	155
54456	12	.052	.560	3.25	210	175
54457	16	.062	.645	3.70	275	230
54458	20	.062	.670	4.00	330	280
54459	24	.062	.745	4.80	405	325
54460	36	.072	.890	6.00	600	470
54461	50	.072	.995	6.00	830	640

*** Individual and overall shield also available upon request. Please specify when ordering.**

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THERMOCOUPLE WIRE & CABLE INSULATION DESCRIPTIONS

Ceramic Fiber

PRODUCT DESCRIPTION
Highest temperature flexible insulation available. The braided yarn is a composition of the oxides of alumina, boric and silicone. Each conductor as well as the overall jacket is braided with this high temperature yarn to provide maximum flexibility at extremely high temperatures.

PERFORMANCE FEATURES
- Designed for continuous use at temperatures to 2200°F (1205°C); intermittent use to 2600°F (1430°C).
- Good abrasion and chemical resistance.

APPLICATIONS
- As a replacement for beaded thermocouples.
- Heat treating.
- Coke ovens.
- Soaking pits.
- Furnace Survey Thermocouple.
- Brick & Tile Kilns.

Fiberglass

PRODUCT DESCRIPTION
Most popular and widely applied of all glass insulations. A color-coded fiberglass braid saturated with a high performance resin is used for insulation of the single conductors and jacket.

PERFORMANCE FEATURES
- Designed for continuous use at temperatures to 950°F (480°C); intermittent use to 1200°F (540°C).
- Good moisture and chemical resistance; fair abrasion resistance.

APPLICATIONS
- Heat treating.
- Glass & Ceramic Kilns.
- Foundries.
- Extensive applications in aluminum processing.

High Temperature Glass

PRODUCT DESCRIPTION
A high temperature, high tensile strength fiberglass, either color-coded or with tracer yarn. Is braided on both the single conductors and the overall jacket. Both are impregnated with a 500°F modified resin saturant.

PERFORMANCE FEATURES
- Designed for continuous use at temperatures to 1200°F (650°C); intermittent readings to 1450°F (790°C).
- Good moisture and abrasion resistance.

APPLICATIONS
- Preheating & Stress Relieving of Forgings.
- Heat treating for annealing, aging or hardening.
- Furnace Temperature Surveys.

Extruded FEP Teflon®

PRODUCT DESCRIPTION
Unshielded:
Color-coded FEP Teflon* is extruded over each single conductor. The single insulated conductors are laid parallel and insulated with an extruded jacket of FEP Teflon*. An FEP Teflon* jacket is extruded over the shielded pairs or triads.

Shielded:
Twisted construction is covered with an aluminum/Mylar tape and stranded drain wire.

PERFORMANCE FEATURES
- Designed for continuous use at temperatures to 400°F (205°C); intermittent readings to 500°F (260°C).
- Most economic and popular of the Teflon* constructions.
- Excellent low-friction jacket facilitates easy pulling of wire through conduits.
- Shielded: twisted construction minimizes electrical interference.
- Excellent moisture and chemical resistance.

APPLICATIONS
- Power generating plants.
- Petroleum plants.
- Field heat treating.

Polyvinyl Duplex

PRODUCT DESCRIPTION
The least expensive extension wire insulation available. The PVC individual color-coded conductors are insulated with 15 mils (nominal) of PVC, then parallel conductors are given a 20 mil PVC jacket. The jacket is easily stripped for separation of insulated conductors for assembly.

PERFORMANCE FEATURES
- Designed for continuous use at temperatures to 220°F (105°C).
- Good abrasion and chemical resistance.

APPLICATIONS
- Permanent Sensor Fabrication.
- Laboratories.
- Test Facilities.
- Short-run Extension Leads.

Polyvinyl Insulation-Overall Shielded

PRODUCT DESCRIPTION
Single & Multipair cables with an overall shield are constructed by insulating the single conductors with 220°F (105°C) PVC. One conductor of each pair is numbered and twisted with its counterpart. The twisted pairs are cabled with an insulated copper communications wire and the entire construction is wrapped with an aluminum/Mylar tape shield. A copper drain wire is applied under the extruded 195°F (90°C) PVC jacket.

PERFORMANCE FEATURES
- Continuous temperature rating of 220°F (105°C).
- Shielded construction provides noise protection.
- Excellent moisture resistance; good chemical and abrasion resistance.
- Approved UL Sub 13 PLTC.

APPLICATIONS
- General plant installation.

Polyvinyl Insulation Individual and Overall Shield

PRODUCT DESCRIPTION
This construction is the same as the construction detailed above, except this construction has an aluminum/Mylar tape and drain wire over each single pair in the construction. This provides isolation for each separate pair in the construction and eliminates internal and external noise in the circuit.

PERFORMANCE FEATURES
- Continuous temperature rating of 220°F (105°C).
- Dual-shielded construction provides excellent noise protection.
- Excellent moisture resistance; good chemical and abrasion resistance.
- Approved UL Sub 13 PLTC.

APPLICATIONS
- General Plant Installation.

METAL OVERBRAID COVERINGS
Stainless Steel Braid
Armor material: 304 SS round wire
Continuous Service Temperature: 1600°F (900°C).
85% minimum coverage
General purpose Stainless Steel, subject to carbide precipitation between 900°F and 1600°F.
Applied to wire sizes from 14 AWG to 30 AWG.

Wrapped Spiral Armor
Armor material: Half-oval Galvanized Iron
90% minimum coverage.
Better resistance to crushing and cutting than braided products.
Applied to wire sizes from 14 AWG to 30 AWG.

K

THERMOCOUPLE EXTENSION WIRE

SERVED WIRE ARMOR

Construction

Construction Specifications:

- Single pair
- Single pair shielded
- Multiple pair individual & overall shield
- Multiple pair overall shield

Unshielded/Shielded Pair:

- Conductor: **Solid Alloy wire.**
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Color Code: ANSI standard
- Lay of Twist: 2" nominal
- Shield: 1.27 mils aluminum-Mylar* type shield and an 18 gauge solid tinned copper drain wire.
- Inner & Outer Jacket: 35 mils
- Armor: Multiple strands of served soft annealed steel wire.

Multipair Indiv/Overall Shield & Multipair Overall Shield:

- Conductor: **Solid Alloy wire.**
- Primary Insulation: per UL 13, 105°C PVC.
- Color Code: ANSI standard
- Group Identification: Each pair numbered.
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge solid tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: FR PVC, ANSI color coded, thickness depending on cable size.
- Armor: Multiple strands of soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

* DuPont Trademark

** Available in other AWG sizes.

PRODUCT DIMENSIONS

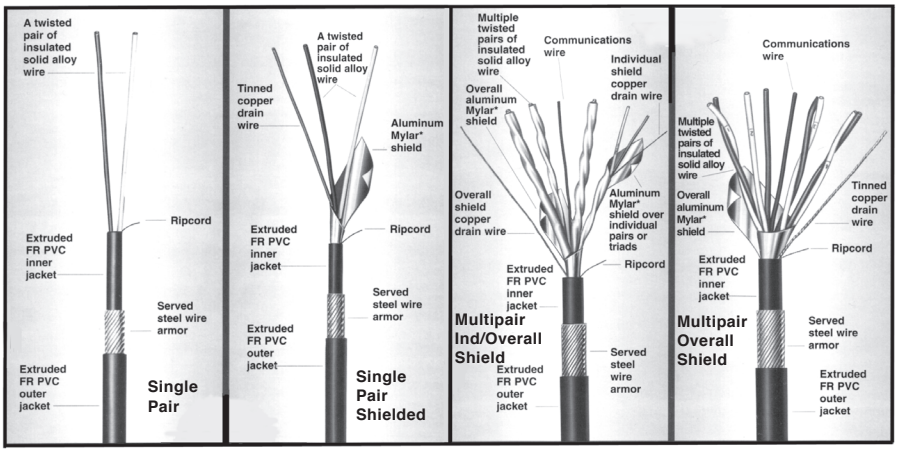
CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum INCHES	Minimum Bend Radius INCHES	Maximum Pulling Tension LBS.	NET WEIGHT LBS./MFT
SHIELDED PAIR / OVERALL SHIELD (SPOS)						
54200(x)	16	1	0.349/0.397	4-3/4	141	108.0
54201(x)	16	1	0.351/0.339	4-3/4	154	111.6
54204(x)	20	4	0.606/0.645	7-1/8	400	275.0
54208(x)	20	8	0.716/0.753	9-1/8	626	372.0
54212(x)	20	12	0.903/0.965	11-5/8	779	593.0
54216(x)	20	16	0.970/1.034	12-1/2	1037	682.0
54224(x)	20	24	1.160/1.225	14-3/4	1313	1010.0
54236(x)	20	36	1.322/1.391	16-3/8	1651	1300.0
OVERALL SHIELD						
54104(x)	20	4	0.516/0.551	6-3/8	348	186.0
54108(x)	20	8	0.667/0.705	8-1/2	478	328.0
54112(x)	20	12	0.746/0.784	9-1/2	664	402.0
54116(x)	20	16	0.893/0.955	11-1/2	756	591.0
54124(x)	20	24	1.004/1.067	12-7/8	1107	733.0
54136(x)	20	36	1.223/1.299	15-5/8	1427	1133.0

ALLOY IDENTIFICATION

ANSI Type	Alloy Identification		ANSI Color Code			Temperature Range °C	Limits of Error
	Positive Wire	Negative Wire	Positive Wire	Negative Wire	Overall Jacket		
EX	Chromel	Constantan	Purple	Red	Purple	0 to +200°C	±1.7°C
JX	Iron	Constantan	White	Red	Black	0 to +200°C	±2.2°C
KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200°C	±2.2°C
SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200°C	±5.0°C
TX	Copper	Constantan	Blue	Red	Blue	-60 to +100°C	±1.0°C

Application

This product is UL Listed as power limited tray cable for cable tray installations in NEC Class I, Division 2 and with restrictions in Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops. The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.



UL®

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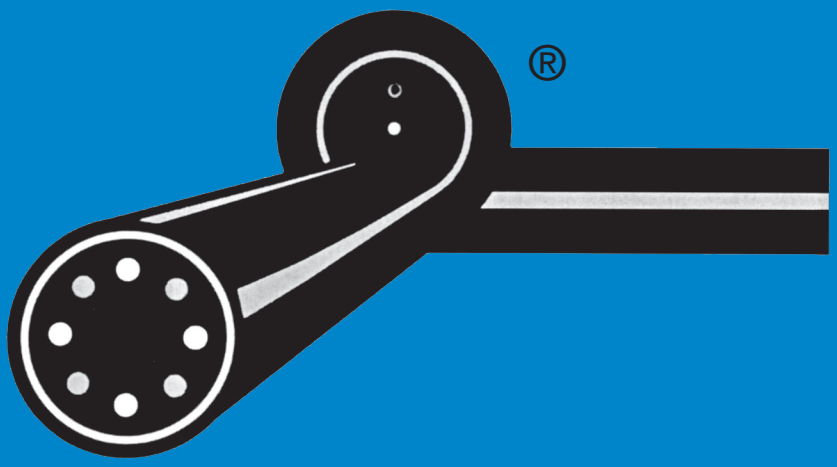
HOOK-UP WIRE

INCLUDING FLAT AND TUBULAR BRAID

O



TINNED COPPER FLAT BRAID

QQ-W-343E

O

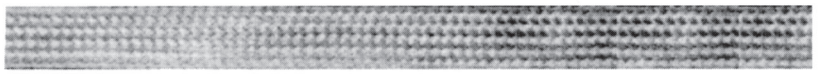
Construction

Description:

- Woven tinned copper braid rolled flat to specific width.
- Each strand meets requirements of Fed. Spec. QQ-W-343E and ASTM-B-33.

Application:

- A tight weave of multi-strand, soft drawn tinned copper wire; tinned copper braid is an ideal shielding material for short run cables providing easy radial termination. In retrofit applications, provides additional shielding efficiency. Tinned copper flat braid, used as a ground strap, provides an excellent low impedance ground path.



CUSTOM CATALOG NUMBER	NOM. FLAT WIDTH	SIZE	NOM. CIRC. MIL AREA	NOMINAL THICKNESS	BRAID CONSTRUCTION			CURRENT	NOMINAL WEIGHT
	INCHES	AWG/MCM	CM	INCHES	AWG OF INDIV. ENDS	CARRIERS	TOTAL NO. OF INDIV. ENDS	AMPS[1]	LBS/MFT
1051	0.025	27	200	0.015	36	8	8	4	1
1052	1/32	24	400	0.020	36	16	16	6	2
1053[(2)]	3/64	22	600	0.020	36	24	24	7	2
1054	3/32	19	1200	0.020	36	16	48	11	4
1055[(2)]	1/8	18	1800	0.020	36	24	72	16	6
1056[(2)]	3/16	15	3000	0.020	36	24	120	25	10
1057[(2)]	1/4	14	4200	0.030	36	24	168	32	14
1058	3/8	12	7200	0.030	36	48	288	46	25
1059	1/2	10	9600	0.030	36	48	384	53	34
1060[(2)]	5/8	10	9600	0.030	36	48	384	53	32
1061	3/4	7	20800	0.040	36	48	864	85	65
1062	1	7	20800	0.045	36	48	864	85	77
1063[(2)]	1-3/8	5	33700	0.050	30	48	336	100	79
1064[(2)]	1-1/2	3	53064	0.060	30	48	528	150	186
1065	1-3/4	2/0	125424	0.080	30	48	1248	280	451
1066	2	3/0	154368	0.120	30	48	1436	310	512
1067	3	4/0	225000	0.200	30	48	2256	390	775

1 Values shown are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Acutal values will depnd on permissible temperature rise, permissible voltage drop and other conditions of service.

2 Meets QQ-B-575B.

QQ-B-575B & QQ-W-343E

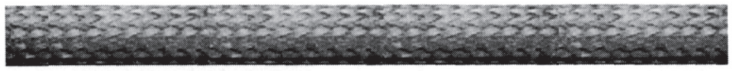
Construction

Description:

- Each strand soft drawn tinned copper wire meets Fed. Spec. QQ-W-343E and ASTM-B-33.
- Shield coverage: 95% when placed over mandrel of equivalent diameter to that of braid interior.

Application:

- Used as both shielding and protective covering.



CUSTOM CATALOG NUMBER	NOM. FLAT WIDTH	SIZE	NOM. CIRC. MIL AREA	BRAID CONSTRUCTION			CURRENT	NOMINAL WEIGHT
	INCHES	AWG/MCM	CM	AWG. OF INDIV. ENDS	CARRIERS	TOTAL NO. OF INDIV. ENDS	AMPS[1]	LBS/MFT
1075	1/32	22	600	36	24	24	7	4
1076	1/16	19	1200	36	24	48	11	7
1077	5/64	18	1800	36	24	72	16	8
1078	7/64	16	2400	36	24	96	19	11
1079	1/8	15	3000	36	24	120	25	13
1080	5/32	12	6000	36	24	240	40	23
1081	11/64	14	4200	36	24	168	32	29
1082	13/64	11	7630	34	24	192	46	36
1083	1/4	10	9600	36	24	384	53	38
1084	9/32	9	12060	30	24	120	60	40
1085	3/8	10	9600	36	48	384	53	42
1086	7/16	6	24120	30	24	240	90	84
1087	1/2	9	13200	36	48	528	62	60
1088	9/16	3	48240	30	48	480	145	154
1089	21/32	1	77180	30	48	768	190	253
1090	25/32	7	21600	36	48	864	88	82

1 Values shown are for bare cable in free air at 30°C(86°F) and intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service.

HOOK-UP WIRE

MIL-W-76B TYPE MW - 80°C 1000 VOLT
MIL-W-16878 PVC TYPE B - 105°C 600 VOLT

0

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- PVC.
- Type MW: Medium wall.
- Temperature range: -40°C to +80°C.

Application:
- Internal wiring of electrical and electronic equipment.
- Internal wiring of panels and meters.
- Point to point wiring.

Packaging:
- 1000 ft or bulk spools.

CUSTOM CATALOG NUMBER	TYPE DESIGNATION	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS./MFT
MIL-W-76B TYPE MW (MEDIUM WALL) 80°C 1000 VOLT						
710	MW-C24(7)U	24	7/32	0.016	0.058	4
711	MW-C22(7)U	22	7/30	0.016	0.064	5
712	MW-C20(10)U	20	10/30	0.016	0.070	6
713	MW-C18(16)U	18	16/30	0.016	0.080	8
714	MW-C16(26)U	16	26/30	0.016	0.092	12
715	MW-C14(41)U	14	41/30	0.016	0.106	18
716	MW-C12(65)U	12	65/30	0.016	0.127	26

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Temperature Range: -55°C to + 105°C.
- Voltage Rating: 600 volts.

Applications:
- Internal wiring of electrical and electronic equipment.
- Internal wiring of panels and meters.
- Point to point wiring.

Industry Approvals:
- Passes UL VW-1 S Flame Test.

Packaging:
- 1000 ft or bulk spools.

CUSTOM CATALOG NUMBER	TYPE DESIGNATION	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS./MFT
MIL-W-16878 PVC TYPE B 105°C 600 VOLT						
505	B-24	24	7/32	0.010	0.044	2
506	B-24	24	19/36	0.010	0.044	2
507	B-22	22	7/30	0.010	0.050	4
508	B-22	22	19/34	0.010	0.052	4
509	B-20	20	7/28	0.010	0.058	5
510	B-20	20	19/32	0.010	0.060	6
511	B-18	18	7/26	0.010	0.068	7
512	B-18	18	19/30	0.010	0.070	8
513	B-16	16	19/29	0.010	0.077	10
514	B-14	14	19/27	0.010	0.091	15

Passes UL VW-1 Flame Test
Passes UL-VW-1 Flame Test
Underwriters Laboratories Inc.

UL 1007 CSA TR-64 - 80°C 300 VOLT/UL 1569 CSA TR-64 - 105°C 300 VOLT
UL 1015 - 1028 - 1283 - 1284 CSA TEW - 105°C 600 VOLT

Construction

Conductor:
- Fully annealed tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Temperature range: -40°C to +80°C (UL 1007).
- Temperature range: -40°C to +105°C (UL 1569).
- Voltage Rating: 300 volts (UL1007).
- Temperature Range: -40°C to 105°C. (UL 1015, 1028, 1283, 1284).
- Voltage Rating: 600 volts. (UL 1015, 1028, 1283, 1284).

Applications:
- Internal wiring of electrical and electronic equipment.
- Internal wiring of panels and meters.
- Point to point wiring.

Industry Approvals:
- UL Style 1007 CSA TR-64 (601-605).
- UL Style 1569 CSA TR-64 (601-605).
- UL Style 1015 CSA TEW (609-616).
- UL Style 1028 CSA TEW (617).
- UL Style 1283 CSA TEW (618-620).
- UL Style 1284 CSA TEW (621-625).
- Passes UL VW-1 S Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 1000 ft or bulk spools.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
UL 1007 CSA TR-64 80°C 300 VOLTS/UL 1569 CSA TR-64 - 105°C 300 VOLT					
601	24	7/32	0.015	0.056	3
602	22	7/30	0.015	0.062	4
603	20	10/30	0.015	0.068	5
604	18	16/30	0.015	0.080	7
605	16	26/30	0.015	0.094	10
UL 1015 CSA TEW SOLID CONDUCTORS					
606	22	Solid	0.032	0.089	5
607	20	Solid	0.032	0.096	7
608	18	Solid	0.032	0.104	9
UL 1015 CSA TEW 105°C 600 VOLT (UL 1230)					
609	24	7/32	0.030	0.088	5
610	22	7/30	0.030	0.094	6
611	20	10/30	0.030	0.098	8
612	18	16/30	0.030	0.108	10
613	16	26/30	0.030	0.121	14
614	14	41/30	0.030	0.139	20
615	12	65/30	0.030	0.155	30
616	10	105/30	0.030	0.172	55
UL 1028 CSA TEW 105°C 600 VOLT (UL 1231)					
617	8	133/29	0.045	0.262	69
UL 1283 CSA TEW 105°C 600 VOLT (UL 1232)					
618	6	133/27	0.060	0.335	115
619	4	133/25	0.060	0.390	168
620	2	665/30*	0.060	0.465	258
UL 1284 CSA TEW 105°C 600 VOLT (UL 1232)					
621	1	817/30*	0.080	0.535	310
622	1/0	1064/30*	0.080	0.578	426
623	2/0	1330/30*	0.080	0.640	450
624	3/0	1672/30*	0.080	0.680	550
625	4/0	2107/30*	0.080	0.758	680

NOTE: All colors and stripes available. Specify when ordering.

* If these strandings are not available, we may supply other flexible strandings. The substituted strandings will be UL approved. Please specify at the time of order if your application and stranding requirements are critical.

Recognized Component Underwriters Laboratories Inc.

Passes UL VW-1 Flame Test — Passes UL-VW-1 Flame Test Underwriters Laboratories Inc.

Certified Canadian Standard Association

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

XLP APPLIANCE, TRANSFORMER AND MOTOR LEAD WIRE

125°C - 600 VOLT

Construction

Conductor:
- Conductors are tin coated bunch or rope stranded copper per UL Standard 758.

Separator:
- A suitable separator over the conductor may be used at the option of the manufacturer.

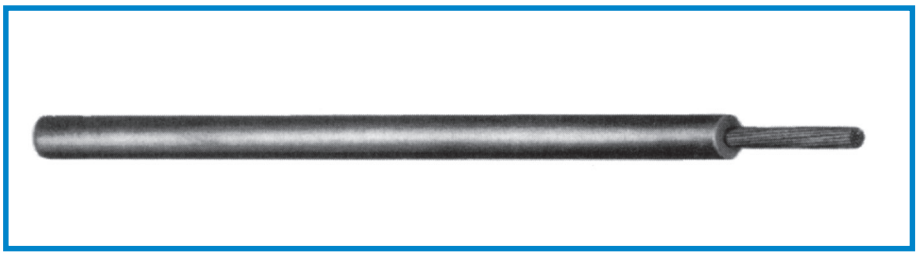
Insulation:
- Insulation shall be an extruded wall of XLP chemically crosslinked polyethene.
- Insulation shall meet the physical, aging, electrical and thickness requirements specified in UL Standard 758 and CSA C22.2 No. 116 for UL Style Numbers 3173, 3182, 3195, 3196 and CSA Type CL1251.

Tests:
- Completed wire and cable shall be tested in accordance with UL Standard 758 and CSA Standard C22.2 No. 116 requirements.

Application:
- As appliance wires exposed to temperatures not exceeding 125°C in dry locations.
- As lead wires for coils, dry-type transformers, motors, ballasts or solenoids where high temperature operation or baking cycles are involved.
- Also recommended under IEEE Standards for Class B (130°C) motor leads.

Industry Approvals:
- Listed per UL Standard 758 and the Style Numbers shown in the table at right; labeled as Appliance Wiring Material.
- Approved by Canadian Standards Association as Type CL 1251 Coil Lead Wire per CSA Standard C22.2 No. 116.

SPECIFY COLOR WHEN ORDERING



CUSTOM CATALOG NUMBER	SIZE AWG	NO. OF STRANDS	INSULATION THICKNESS MILLS	NOMINAL DIAMETER (INCHES)	APPROX. NET WT. PER MFT.	UL STYLE NUMBER	CSA TYPE
630	22	7	30	0.093	6	3173	CL1251
631	20	10	30	0.100	7	3173	CL1251
632	18	16	30	0.111	10	3173	CL1251
633	16	26	30	0.126	13	3173	CL1251
634	14	41	30	0.141	20	3173	CL1251
635	12	65	30	0.161	27	3173	CL1251
636	10	104	30	0.185	44	3173	CL1251
637	18	28	45	0.157	17	3182	CL1251
638	14	41	45	0.172	23	3182	CL1251
639	12	65	45	0.191	32	3182	CL1251
640	10	104	45	0.215	46	3182	CL1251
641	8	84	45	0.262	70	3195	CL1251
642	6	84	60	0.336	115	3196	CL1251
643	4	133	60	0.395	178	3196	CL1251
644	2	259	60	0.454	265	3196	CL1251

Data Subject To Change Without Notice.

Specify Color When Ordering.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

HOOK-UP WIRE

UL MTW, AWM, THW/CSA TEW, MTW, LIGHT WALL
UL MTW, THW, HEAVY WALL

O

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-3.

Insulation:
- Color coded PVC.
- Temperature range: -40°C to +90°C (MTW); -20°C to +105°C (TEW/AWM).
- Voltage Rating: 600 Volts.

Applications:
- Motor and transformer lead.
- External wiring of machinery.
- Building wire.

Features:
- Outstanding oil, flame, and moisture resistance.
- Extra flexible.
- Resistance to corrosion and heat.

Industry Approvals:
- UL and NMTBA type MTW/AWM (15080-15085).
- CSA AWM (15080-15085).
- UL and NMBTA (15092-15097).
- NEC-THW (15092-15097).
- Passes VW-1 S Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft Spools.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
UL MTW, AWM, THW/CSA TEW, MTW LIGHT WALL					
15080	18	16/0.0100	0.031	0.110	11
15081	16	26/0.0100	0.031	0.122	14
15082	14	19/0.0159	0.031	0.136	20
15083	12	19/0.0185	0.031	0.155	28
15084	10	19/0.0234	0.031	0.180	44
15085	8	19/0.0295	0.045	0.246	74
UL MTW, THW, HEAVY WALL					
15092	14	19/0.0159	0.045	0.166	25
15093	12	19/0.0185	0.045	0.185	31
15094	10	19/0.0234	0.045	0.210	51
15095	8	19/0.0295	0.060	0.277	86
15096	6	19/0.0372	0.060	0.315	118
15097	4	19/0.0469	0.060	0.365	170

Specify color when ordering.

HOOK-UP WIRE

IRRADIATED PVC INSULATION UL LISTED - CSA CERTIFIED

O

Construction

Conductor:
- Stranded or solid tinned copper.

Insulation:
- Color Coded, Irradiated Polyvinylcholoride (XLPVC).

Characteristics:
- Temperature Range: -55°C to +105°C (UL Style 1429 80°C) (UL Style 1430 105°C).
- Voltage Rating: UL Style 1429-150V UL Style 1430-300V.
- Flammability: Passes UL VW-1 flame test.

Features:
- High reliability.
- Solder iron resistance.
- Increased strength.

Applications:
- Appliances.
- Computer wiring.
- Business machines.
- Instrumentation and control systems.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
UL STYLE 1429 - IRRADIATED PVC 150 VOLT 80°C CSA AWM XLPVC					
650	26	7/34	0.010	0.040	2
651	24	7/32	0.010	0.045	2
652	22	7/30	0.010	0.051	3
653	20	7/28	0.010	0.059	5
654	18	7/26	0.010	0.070	7
655	16	19/29	0.010	0.078	9
656	24	Solid	0.010	0.040	2
657	22	Solid	0.010	0.045	3
658	20	Solid	0.010	0.054	5
UL STYLE 1430 - IRRADIATED PVC 300 VOLT 105°C CSA REW XLPVC					
670	24	7/32	0.016	0.056	3
671	22	7/30	0.016	0.062	4
672	20	7/28	0.016	0.070	5
673	18	7/26	0.016	0.082	8
674	16	19/29	0.016	0.092	11

NOTE: Specify color when ordering.

IRRADIATED CROSSLINKED POLYETHYLENE (XLP)

125°C, 300 VOLT, UL RECOGNIZED & CSA CERTIFIED

Construction

Conductor:
- Soft annealed, solid or stranded tinned copper.

Insulation:
- Irradiated crosslinked polyethylene insulation (VW-1 compound available).

Application:
- For internal wiring of appliances when not subject to undue mechanical abuse.
- 600 volts for electronic use.

Specify color when ordering

CUSTOM CATALOG NUMBER	SIZE AWG	NO. OF STRANDS	INSULATION THICKNESS MILS - NOM.	DIAMETER INCHES NOM.	APPROX. NET WT. PER MFT.	UL STYLE NUMBER	CSA TYPE
680	24	7/32	0.016	0.056	3	3266	CL1252 or AWM
681	22	Solid	0.016	0.057	4	3266	CL1252 or AWM
682	22	7/30	0.016	0.062	4	3266	CL1252 or AWM
683	22	19/34	0.016	0.064	4	3268	CL1252 or AWM
684	20	Solid	0.016	0.064	5	3266	CL1252 or AWM
685	20	7/28	0.016	0.070	5	3266	CL1252 or AWM
686	20	19/32	0.016	0.072	6	3266	CL1252 or AWM
687	18	Solid	0.016	0.072	7	3266	CL1252 or AWM
688	18	7/26	0.016	0.080	8	3266	CL1252 or AWM
689	18	19/30	0.016	0.082	8	3266	CL1252 or AWM
690	16	Solid	0.016	0.083	10	3266	CL1252 or AWM
691	16	19/29	0.016	0.089	11	3266	CL1252 or AWM
692	14	19/27	0.016	0.106	16	3266	CL1252 or AWM
693	14	41/30	0.016	0.107	16	3266	CL1252 or AWM
694	12	19/25	0.016	0.127	24	3266	CL1262 or AWM
695	10	37/26	0.016	0.151	37	3266	CL1252 or AWM

UNSHIELDED MIL-W-5086A 105°C 1000 VOLT

Construction

Description:

- Type I: Stranded tinned copper, white polyvinyl insulation, clear nylon jacket overall.
- Type II: Stranded tinned copper, white polyvinyl insulation, white glass braid, clear nylon jacket overall. 10 AWG and larger has nylon lacquered braid overall.

Temperature Rating:

- -55°C to +105°C.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	MIL TYPE DESIGNATION	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
TYPE I PVC/NYLON					
401	22	19/34	AN-22	0.068	5
402	20	19/32	AN-20	0.078	10
403	18	19/30	AN-18	0.088	11
404	16	19/29	AN-16	0.098	13
405	14	19/27	AN-14	0.117	17
406	12	37/28	AN-12	0.137	26
TYPE II PVC/GLASS BRAID/NYLON					
451	22	19/34	AN-22	0.075	6
452	20	19/32	AN-20	0.085	10
453	18	19/30	AN-18	0.095	11
454	16	19/29	AN-16	0.105	13
455	14	19/27	AN-14	0.125	16
456	12	37/28	AN-12	0.143	26
457	10	37/26	AN-10	0.189	49
458	8	133/29	AN-8	0.240	75
459	6	133/27	AN-6	0.293	113
462	4	133/25	AN-4	0.355	175
461	2	665/30	AN-2	0.425	278
460	1	817/30	AN-1	0.470	295
463	1/0	1045/30	AN-0	0.525	420
464	2/0	1330/30	AN-00	0.590	528
465	3/0	1665/30	AN-000	0.645	610
466	4/0	2109/30	AN-0000	0.715	750

NOTE: The term Aircraft Wire (5086A) is used to refer to the above constructions. It is no longer a current specification or recommended for aircraft use.

TEFLON TFE® HOOK-UP WIRE

MIL-W-16878/4 TYPE E 600 VOLT
MIL-W-16878/5 TYPE EE 1000 VOLT

O

Construction

Description:

- Teflon® Type E & EE - Extruded.
- Single conductor stranded silver plated copper, TFE extruded Teflon® insulation. Resistant to acid, alkalis, oil, flame, moisture, solvents and fungus.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	TYPE DESIGNATION	NOM. INSUL. THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS./MFT
TEFLON® TYPE E - EXTRUDED 600 VOLT -65°C to +200°C						
856	24	7/32	E-24	0.010	0.044	3
857	24	19/36	E-24	0.010	0.044	3
858	22	7/30	E-22	0.010	0.050	4
859	22	19/34	E-22	0.010	0.050	4
860	20	7/28	E-20	0.010	0.058	5
861	20	19/32	E-20	0.010	0.058	6
862	18	19/30	E-18	0.010	0.069	8
863	16	19/29	E-16	0.010	0.080	11
864	14	19/27	E-14	0.012	0.094	16
865	12	19/25	E-12	0.012	0.113	24
866	10	37/26	E-10	0.012	0.134	32
TEFLON® TYPE EE - EXTRUDED 1000 VOLT -65°C to +200°C						
875	24	19/36	EE-24	0.014	0.054	4
876	22	7/30	EE-22	0.014	0.060	5
877	22	19/34	EE-22	0.014	0.060	5
878	20	7/28	EE-20	0.014	0.068	6
879	20	19/32	EE-20	0.014	0.068	7
880	18	19/30	EE-18	0.014	0.079	10
881	16	19/29	EE-16	0.014	0.089	12
882	14	19/27	EE-14	0.017	0.105	18
883	12	19/25	EE-12	0.017	0.124	26
884	10	37/26	EE-10	0.017	0.145	38
885	8	133/29	EE-8	0.020	0.210	56

Specify color when ordering.

NOTE: MIL-W-22759 is available. Please specify color and check with sales office for pricing and availability details.

TYPE K - 600 VOLT MIL-W-16878/11

Construction

Conductor:
- Stranded or solid tinned plated copper.

Insulation:
- Teflon FEP®.

Spark Test:
- 3400 Volts RMS.

Impulse Test:
- 13.5 KV Peaks.

Dielectric Test:
- 2000 Volts RMS.

Insulation Resistance:
- 1000 Megohms/MFT.

Minimum Tensile Strength:
- 2000 PSI.

Minimum Elongation:
- 150%.

Colors:
- Available in standard solid colors and with tracers.
- Conforms to MIL-STD-104.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. COND. DIAMETER INCHES	FINISHED O.D. INCHES	NOMINAL WEIGHT LBS/MFT
150°C TIN PLATED COPPER 600 VOLTS					
800	26	Solid**	0.016	0.036	2
801	26	7/34	0.019	0.039	2
802	24	Solid**	0.020	0.040	2
803	24	7/32	0.024	0.044	3
804	24	19/36	0.025	0.044	3
805	22	Solid**	0.025	0.045	3
806	22	7/30	0.030	0.050	4
807	22	19/34	0.030	0.050	4
808	20	Solid**	0.032	0.052	4
809	20	7/28	0.038	0.058	5
810	20	19/32	0.038	0.058	6
811	18	Solid**	0.040	0.060	7
812	18	7/26	0.047	0.069	8
813	18	19/30	0.047	0.069	8
814	16	19/29	0.053	0.080	11
815	14	19/27	0.067	0.094	16
816	12	19/25	0.084	0.113	24
817	10	37/26	0.108	0.134	32

** Not listed in MIL-W-16878, but manufactured and tested to requirements of specification.

Alternate Silver Plated Copper conductor available. Must be specified.

TEFLON FEP® HOOK-UP WIRE

TYPE KK - 1000 VOLT MIL-W-16878/12

O

Construction

Conductor:
- Stranded or solid tinned plated copper.

Insulation:
- Teflon FEP®.

Spark Test:
- 5000 Volts RMS.

Impulse Test:
- 15.0 KV Peak.

Dielectric Test:
- 3000 Volts RMS.

Insulation Resistance:
- 1000 Megohms/MFT.

Minimum Tensile Strength:
- 2000 PSI.

Minimum Elongation:
- 150%.

Colors:
- Available in standard colors and tracers (AWG 26 thru 10): Larger sizes solid colors only. Conforms to MIL-STD-104.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	STRAND	NOM. COND. DIAMETER INCHES	FINISHED O.D. INCHES	NOMINAL WEIGHT LBS/MFT
150°C TIN PLATED COPPER 1000 VOLTS					
820	26	Solid**	0.016	0.046	2
821	26	7/34	0.019	0.049	3
822	24	Solid**	0.020	0.050	3
823	24	7/32	0.024	0.054	4
824	24	19/36	0.025	0.054	4
825	22	Solid**	0.025	0.055	4
826	22	7/30	0.030	0.060	5
827	22	19/34	0.030	0.060	5
828	20	Solid**	0.032	0.062	6
829	20	7/28	0.038	0.068	6
830	20	19/32	0.038	0.068	7
831	18	Solid**	0.040	0.070	9
832	18	7/26	0.047	0.079	9
833	18	19/30	0.047	0.079	9
834	16	19/29	0.053	0.089	12
835	14	19/27	0.067	0.105	18
836	12	19/25	0.084	0.124	26
837	10	37/26	0.108	0.145	38
838	8	133/29	0.161	0.207	70
839	6	133/27	0.202	0.291	118
840	4	133/25	0.266	0.356	183
841	2	665/30	0.335	0.425	273
842	1	836/30	0.378	0.478	346
843	1/0	1064/30	0.424	0.528	424
844	2/0	1330/30	0.477	0.587	500
846	4/0	2107/30	0.601	0.721	767

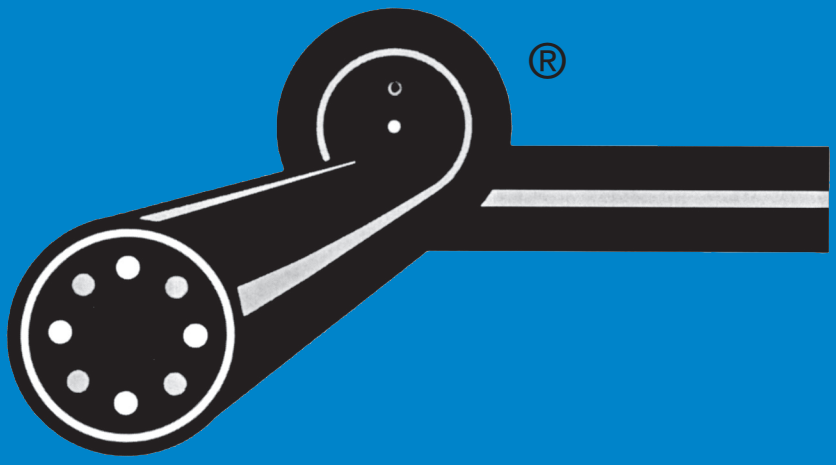
** Not listed in MIL-W-16878, but manufactured and tested to requirements of specification.

Alternate Silver Plated Copper conductor available. Must be specified.

COMMUNICATION AND CONTROL CABLE

INCLUDING MICROPHONE CABLE

P



COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR UNSHIELDED
80°C 300 VOLT UL 2464 CSA PCC FT4 NEC TYPE CL2 AND CM

P

Construction

Conductor:
- Fully annealed, stranded tinned copper per ASTM B-33.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color code:
  See Chart #1 (1182-1189).
  See Chart #2 (1190, 91, 92).
  See Chart #3 (1202).
  See Chart #22 (1203).

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

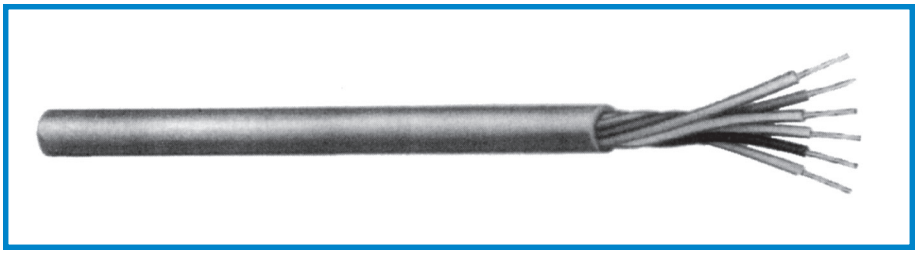
Applications:
- Public address systems.
- Intercoms.
- Internal telephones.
- Remote control circuits.
- Suitable for EIA RS-232 applications.

Equipment Interfaces:
- DEC modem systems.
- DEC processors.
- IBM controlled access systems.

Features:
- Easy to terminate.
- Excellent electrical properties.
- Tinned conductors provide excellent corrosion resistance.
- Assists soldering applications.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- UL Style 2464.
- CSA PCC (CSA: 60°C).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft. or 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
1180*	24	2	7/32	0.010	0.032	0.156	12
1181**	24	3	7/32	0.010	0.032	0.163	14
1182	24	4	7/32	0.010	0.032	0.174	17
1183	24	5	7/32	0.010	0.032	0.187	20
1184	24	6	7/32	0.010	0.032	0.200	23
1185	24	7	7/32	0.010	0.032	0.200	25
1186	24	8	7/32	0.010	0.032	0.214	28
1187	24	9	7/32	0.010	0.032	0.227	31
1188	24	10	7/32	0.010	0.032	0.244	34
1189	24	12	7/32	0.010	0.032	0.251	39
1190	24	15	7/32	0.010	0.032	0.275	47
1191	24	20	7/32	0.010	0.032	0.302	60
1192	24	25	7/32	0.010	0.032	0.332	73
1202	22	2	7/30	0.010	0.025	0.150	16
1203	22	3	7/30	0.010	0.032	0.176	19
1204	22	4	7/30	0.010	0.032	0.189	23
1205	22	5	7/30	0.010	0.032	0.203	28
1206	22	6	7/30	0.010	0.032	0.218	31
1207	22	7	7/30	0.010	0.032	0.218	35
1208	22	8	7/30	0.010	0.032	0.234	38
1209	22	9	7/30	0.010	0.032	0.249	43
1210	22	10	7/30	0.010	0.032	0.268	46
1212	22	12	7/30	0.010	0.032	0.276	58
1215	22	15	7/30	0.010	0.032	0.303	71
1220	22	20	7/30	0.010	0.032	0.334	91
1225	22	25	7/30	0.010	0.032	0.368	105
1230	22	30	7/30	0.010	0.032	0.389	140
1240	22	40	7/30	0.010	0.032	0.434	190
1250	22	50	7/30	0.010	0.032	0.489	230
1260	22	60	7/30	0.010	0.032	0.535	260

* Color code: Black, Red
** Color code: Black, Red, Green

FT4 Certified
Canadian Standard Association

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
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MULTI-CONDUCTOR UNSHIELDED
300 VOLT UL 2464 CSA PCC FT4 NEC TYPE CL2 AND CM

Construction

Conductor:
- Fully annealed, stranded tinned copper per ASTM B-33.

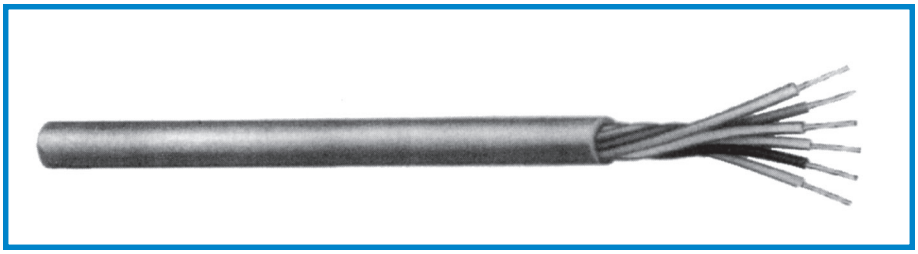
Insulation:
- Color coded PVC per UL 1007.
- Color code:
  See Chart #1 (1303-1309, 1403-1409).
  See Chart #2 (1312-1315, 1412-1425).
  See Chart #3 (1302, 1400).

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +75°C (UL) -20°C to +90°C (CSA).
- Voltage Rating: 300 volts.

Applications:
- Public address systems.
- Intercoms.
- Internal telephones.
- Remote control circuits.
- Suitable for EIA RS-232 applications.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- UL Style 2464.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft., 1000 ft., or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
1302	20	2	7/28	0.016	0.025	0.192	21
1303	20	3	7/28	0.016	0.032	0.216	27
1304	20	4	7/28	0.016	0.032	0.235	26
1305	20	5	7/28	0.016	0.032	0.254	38
1306*	20	6	10/30	0.016	0.020	0.250	40
1307	20	7	7/28	0.016	0.032	0.275	56
1308*	20	8	10/30	0.016	0.020	0.270	60
1309	20	9	7/28	0.016	0.032	0.317	71
1310*	20	10	10/30	0.016	0.020	0.330	75
1312	20	12	7/28	0.016	0.032	0.354	78
1315	20	15	7/28	0.016	0.032	0.392	106
1400	18	2	16/32	0.016	0.025	0.210	29
1403	18	3	16/32	0.016	0.032	0.236	40
1404	18	4	16/30	0.016	0.032	0.258	49
1405	18	5	16/30	0.016	0.032	0.280	58
1406*	18	6	16/30	0.016	0.020	0.290	62
1407	18	7	16/30	0.016	0.032	0.309	77
1408*	18	8	16/30	0.016	0.025	0.310	90
1409	18	9	16/30	0.016	0.032	0.358	102
1410*	18	10	16/30	0.016	0.025	0.370	120
1412	18	12	16/30	0.016	0.032	0.401	134
1415	18	15	16/30	0.016	0.032	0.445	183
1419	18	19	16/30	0.016	0.032	0.469	190
1425	18	25	16/30	0.016	0.549	0.549	289

* UL 2509

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

LISTED TYPE CM

Custom Cable Corp.

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COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR UNSHIELDED
300 VOLT UL 2464 CSA FT-4 NEC TYPE CL3 AND CM

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

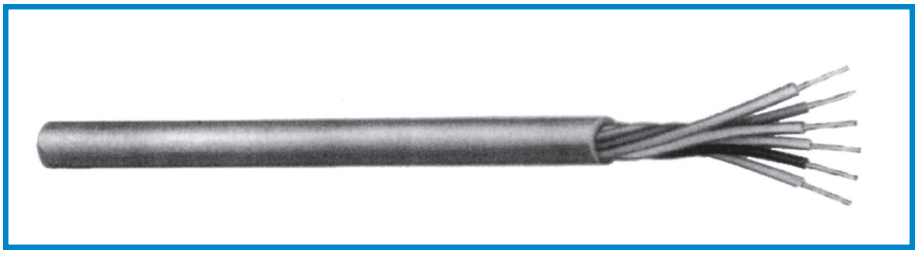
Insulation:
- Color coded PVC.
- Color Code: See Chart #2.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +75°C (UL) -20°C to +90°C (CSA).
- Voltage Rating: 300 volts.

Applications:
- Public address systems.
- Intercoms.
- Internal telephones.
- Remote control circuits.
- Suitable for EIA RS-232 applications.

Industry Approvals:
- NEC Article 725 Type CL3.
- NEC Article 800 Type CM.
- UL Style 2464.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
NEC TYPE CL2 AND CM							
1502	16	2	19/29	0.021	0.032	0.268	40
1503	16	3	19/29	0.021	0.032	0.283	51
1504	16	4	19/29	0.021	0.032	0.306	74
1505	16	5	19/29	0.021	0.032	0.334	95
1507	16	7	19/29	0.021	0.032	0.364	130
1509	16	9	19/29	0.021	0.032	0.425	180
1512	16	12	19/29	0.021	0.032	0.479	201
1515	16	15	19/29	0.021	0.032	0.530	266
1519	16	19	19/29	0.021	0.032	0.564	350
1525	16	25	19/29	0.021	0.032	0.657	442
NEC TYPE CL3 UL 2587 600 VOLT							
1602	14	2	19/.0147	0.030	0.041	0.362	63
1603*	14	3	19/.0147	0.020	0.020	0.280	55
1604	14	4	19/.0147	0.045	0.041	0.480	137
1605	14	5	19/.0147	0.045	0.041	0.504	193
1607	14	7	19/.0147	0.045	0.041	0.573	259
1609	14	9	19/.0147	0.045	0.041	0.645	295
1612	14	12	19/.0147	0.045	0.041	0.731	416
1615	14	15	19/.0147	0.045	0.045	0.814	527
1632	12	2	65/30	0.030	0.041	0.404	93
1633*	12	3	65/30	0.020	0.020	0.320	105

* Non UL/350 Volt.

LISTED TYPE CL3

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

LISTED TYPE CM

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UNSHIELDED POWER LIMITED CIRCUIT CABLE, TYPE PLTC
105°C - 300 VOLT - UL 2464 NEC ARTICLE 725

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #3.

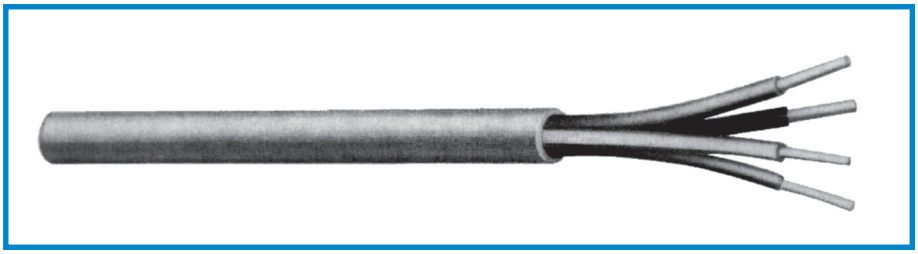
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +105°C.
- Voltage Rating: 300 volts.

Applications:
- Burglar alarms.
- Power limited circuits.
- Intercom systems.
- Business machines.
- Cash registers.
- Automatic value control systems.
- Irrigation systems.
- Cable tray installations.

Features:
- Sunlight resistant PVC jacket.
- UL rated for cable tray use.

Industry Approvals:
- NEC Article 725 Class 2 Power Limited Circuits.
- UL Style 2464.
- UL Subject 13, Type PLTC.
- Meets UL 70,000 BTU Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
3202	22	2	7/30	0.013	0.038	0.190	19
3203	22	3	7/30	0.013	0.038	0.198	24
3212	20	2	7/28	0.013	0.038	0.206	23
3213	20	3	7/28	0.013	0.038	0.216	29
3222	18	2	16/30	0.013	0.038	0.226	28
3223	18	3	16/30	0.013	0.038	0.237	36
3224	18	4	16/30	0.013	0.038	0.257	84
3232	16	2	19/.0147	0.013	0.038	0.238	38
3233	16	3	19/.0147	0.013	0.038	0.250	49
3242	14	2	19/.0147	0.013	0.043	0.276	64
3243	14	3	19/.0147	0.013	0.043	0.290	82
3252	12	2	19/.0185	0.013	0.053	0.314	97

UL® LISTED TYPE PLTC

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FIRE ALARM CABLE

STANDARD CAPACITANCE, UNSHIELDED, NON-PLENUM
NEC TYPE FPLR - PVC

P

Construction

Conductor:
- Fully annealed solid bare copper per ASTM B-3.

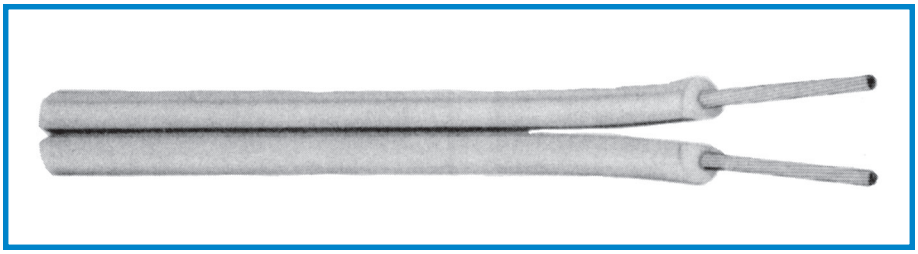
Insulation:
- Color coded, S-R PVC.

Jacket:
- Red PVC.
- Suitable for use from -20°C to +60°C.
- Round constructions have sequential footage markings to facilitate installation.
- Includes ripcord on round constructions.

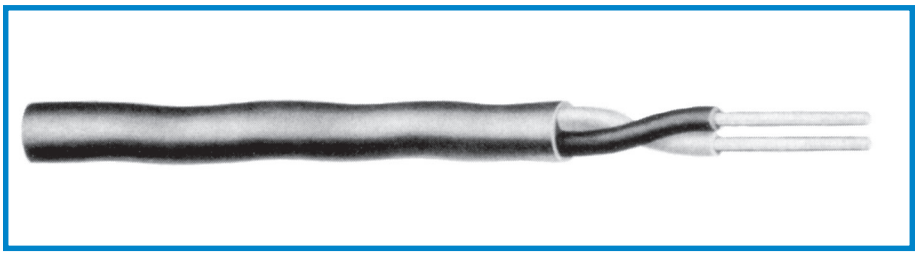
Applications:
- Wiring of fire alarms.
- Smoke detectors.
- Voice communications.
- Burglar alarms.
- Fire protective circuits.
- Suggested voltage rating: 300 volts.

Industry Approvals:
- UL Type FPLR (UL: 60°C, 300V).
- NEC Article 760.
- California State Fire Marshall Approved.
- Passes UL 1666 Flame Test.

Packaging:
- 1000 ft.



CUSTOM CATALOG NUMBER	NUMBER OF COND'S	AWG SIZE	CONDUCTOR STRAND	NOMINAL INSUL. THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
				INCHES	INCHES	LBS/MFT
DUPLEX PARALLEL, RIBBED FOR POLARITY						
3150	2	18	Solid	0.032	0.105x0.210	22
3151	2	16	Solid	0.032	0.115x0.230	31
3152	2	14	Solid	0.032	0.126x0.252	41



CUSTOM CATALOG NUMBER	NUMBER OF COND'S	AWG SIZE	CONDUCTOR STRAND	NOMINAL INSUL. THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
				INCHES	INCHES	LBS/MFT
ROUND CONSTRUCTION						
3160	2	18	Solid	0.010	0.152	17
3162	4	18	Solid	0.010	0.187	32
3164	6	18	Solid	0.010	0.223	46
3170	2	16	Solid	0.010	0.183	26
3172	4	16	Solid	0.010	0.216	47
3175	2	14	Solid	0.010	0.216	38
3177	4	14	Solid	0.012	0.262	72
3180	2	12	Solid	0.012	0.260	58
3182	4	12	Solid	0.012	0.303	106

Color Code Chart

No. of Conductors	Color
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow

LISTED
Type FPLR

Passes
UL 1666
Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

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STANDARD CAPACITANCE, SHIELDED, NON-PLENUM
NEC TYPE FPLR - PVC

Construction

Conductor:
- Fully annealed solid bare copper per ASTM B-3.

Insulation:
- Color coded, S-R PVC.

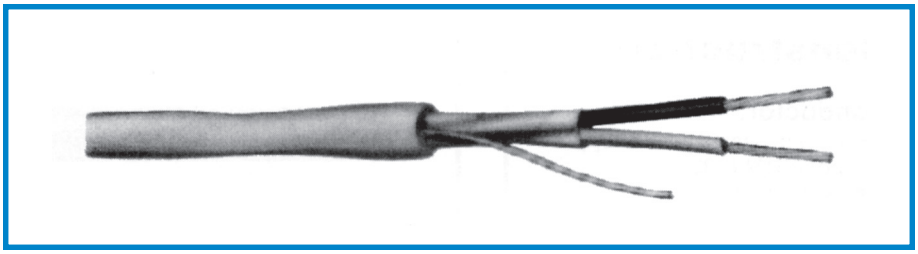
Shield:
- 100% aluminum polyester foil, plus a stranded tinned copper drain wire to facilitate grounding.

Jacket:
- Red PVC.
- Suitable for use from -20°C to +60°C.
- Sequential footage markings to facilitate installations.
- Includes ripcord.

Applications:
- Wiring of fire alarms.
- Smoke alarms.
- Voice communications.
- Burglar alarms.
- Fire protective circuits.
- Suggested voltage rating: 300 volts.

Industry Approvals:
- UL type FPLR (UL: 60°C, 300V).
- NEC Article 760.
- California State Fire Marshall Approved.
- Passes UL 1666 Flame Test.

Packaging:
- 1000 ft.



CUSTOM CATALOG NUMBER	NO. OF COND.	AWG SIZE	CONDUCTOR STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET WALL	NOMINAL O.D.	NOMINAL WEIGHT
				INCHES	INCHES	INCHES	LBS/MFT
3185	2	18	Solid	0.010	0.017	0.158	20
3186	4	18	Solid	0.010	0.020	0.189	35
3188	2	16	Solid	0.010	0.020	0.185	30
3189	4	16	Solid	0.010	0.022	0.218	50
3191	2	14	Solid	0.013	0.020	0.218	41
3192	4	14	Solid	0.013	0.025	0.264	76
3194	2	12	Solid	0.013	0.025	0.262	62
3195	4	12	Solid	0.013	0.025	0.305	111

Color Code Chart

No. of Conductors	Color
1	Black
2	Red
3	Brown
4	Blue

LISTED
Type FPLR

Passes UL 1666 Flame Test
Underwriters Laboratories Inc.

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COMMUNICATION AND CONTROL CABLE

MULTI-PAIRED UNSHIELDED
300 VOLT - UL 2464 CSA FT4 NEC TYPE CL2 AND CM/MP

P

Construction

Conductor:
- Fully annealed tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded SR PVC
- Color Code: See Chart #9.

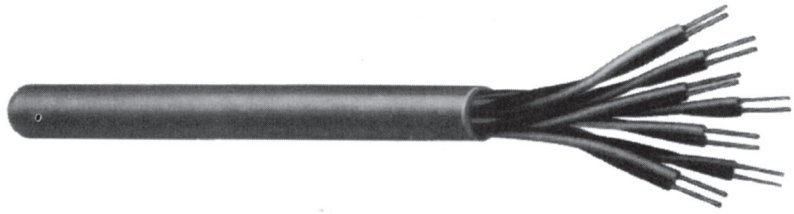
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C (UL) -20°C to +90°C (CSA).
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Equipment Interfaces:
- NCR 625.
- SWEDA.
- DEC interfacing equipment.
- NCR retail and financial systems.
- IBM system/7.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- NEC Article 800 Type CM/MP.
- UL Style 2464 (UL 80°C, 300 V).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.

Packaging:
- 500 ft or 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS INCHES	NOMINAL JACKET THICKNESS INCHES	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
NEC TYPE CL2 AND CM/MP							
2501	22	1	Solid	0.010	0.032	0.155	14
2502	22	2	Solid	0.010	0.032	0.218	22
2503	22	3	Solid	0.010	0.042	0.229	36
2504	22	4	Solid	0.010	0.043	0.249	39
2505	22	5	Solid	0.016	0.043	0.334	46
2506	22	6	Solid	0.012	0.030	0.293	50
2508	22	8	Solid	0.012	0.030	0.325	69
2509	22	9	Solid	0.012	0.030	0.335	86
2511	22	11	Solid	0.012	0.030	0.370	93
2513	22	13	Solid	0.012	0.035	0.410	100
2515	22	15	Solid	0.012	0.035	0.430	113
2519	22	19	Solid	0.012	0.035	0.462	168
2527	22	27	Solid	0.012	0.040	0.565	210
NEC TYPE CL2 AND CM							
2602	22	2	7/30	0.010	0.032	0.228	25
2603	22	3	7/30	0.010	0.032	0.240	42
2604	22	4	7/30	0.010	0.032	0.258	53
2606	22	6	7/30	0.010	0.032	0.300	57
2609	22	9	7/30	0.010	0.030	0.344	85
2612	22	12	7/30	0.010	0.030	0.387	105
2615	22	15	7/30	0.010	0.035	0.435	126
2619	22	19	7/30	0.010	0.035	0.470	169
2627	22	27	7/30	0.010	0.040	0.570	223
2651	22	51	7/30	0.010	0.045	0.770	421
2803	20	3	7/28	0.013	0.030	0.292	45
2806	20	6	7/28	0.013	0.030	0.359	94
2809	20	9	7/28	0.013	0.035	0.423	142
2815	20	15	7/28	0.013	0.040	0.555	215

* UL 2576/150 Volt.

LISTED TYPE CM/MP

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

LISTED TYPE CM

Custom Cable Corp.

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MULTI-PAIRED UNSHIELDED
300 VOLT - UL 2464 CSA FT-4 NEC TYPE CL2 AND CM

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

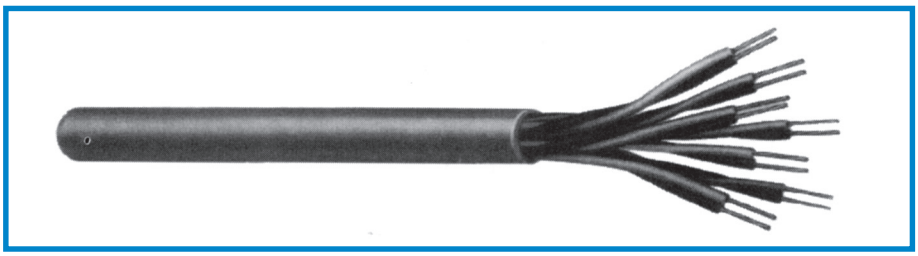
Insulation:
- Color coded PVC.
- Color Code: See Chart #9.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C (UL), -20°C to +90°C (CSA).
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- UL Style 2464 (UL 80°C 300V).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- CSA PCC (CSA: 60°C)

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
1402	18	1	16/30	0.013	0.032	0.216	31
2902	18	2	16/30	0.013	0.032	0.320	57
2903	18	3	16/30	0.013	0.032	0.338	70
2904	18	4	16/30	0.013	0.032	0.372	84
2905	18	5	16/30	0.013	0.032	0.408	109
2906	18	6	16/30	0.013	0.032	0.445	129
2908	18	8	16/30	0.013	0.032	0.484	158
2909	18	9	16/30	0.013	0.032	0.522	183
2912	18	12	16/30	0.013	0.032	0.638	267
2915	18	15	16/30	0.013	0.032	0.703	333
2919	18	19	16/30	0.013	0.032	0.795	401

UL® LISTED TYPE CM/MP

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Recognized Component
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Custom Cable Corp.

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COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR FOIL SHIELD
60°C 300 VOLT & 600 VOLT - NEC TYPE CL2 AND CM

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded polyethylene.
- Color Code:
  See Chart #3 (5311, 5124).
  See Chart #6 (All Others).

Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +75°C.
- Voltage Rating: 300 or 600 Volts.

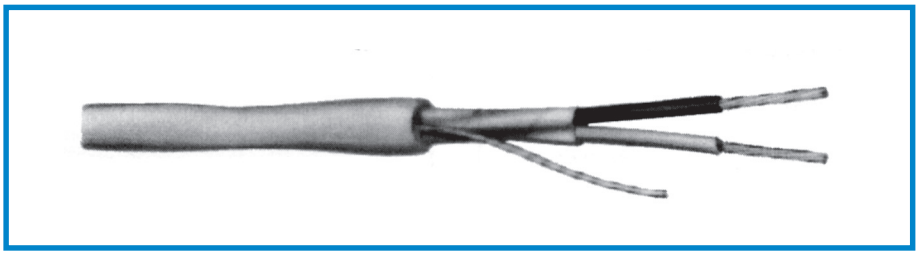
Applications:
- Recording studios and sound stages.
- Broadcast and sound systems.
- Computers.
- Industrial equipment control.

Equipment Interfaces:
- IBM data communication systems.
- IBM 2790.
- Texas Instrument data exchange systems.
- Delta 2000.

Features:
- Excellent electrical properties.
- Superior shielding effectiveness.
- 25% shield overlap provides excellent shielding efficiency.
- Good flexibility.

Industry Approvals:
- UL2092.
- UL2093.
- UL2094.
- UL2106.
- UL2107.
- UL2464.
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- OSHA acceptable.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT1 Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	SIZE OF DRAIN WIRE	NOMINAL THICK (INCHES) INSUL.	NOMINAL THICK (INCHES) JACKET	SUGGEST. WORKING VOLTAGE	NOMINAL O.D. INCHES	UL STYLE	NOMINAL WEIGHT LBS/MFT
5099	24	2	7/32	24	0.016	0.028	300V	0.169	UL2092	13
5100	22	2	7/30	22	0.016	0.028	300V	0.181	UL2092	21
5311	22	2	7/30	22	0.010	0.030	300V	0.164	—	15
5103	22	3	7/30	22	0.016	0.028	300V	0.196	UL2093	23
5104	22	4	7/30	22	0.016	0.028	300V	0.206	UL2094	25
5112	20	2	7/28	22	0.013	0.031	300V	0.190	UL2464	27
5108	20	2	7/28	20	0.016	0.028	300V	0.197	UL2092	23
5109	20	3	7/28	20	0.016	0.028	300V	0.205	UL2093	30
5113	20	3	7/28	20	0.016	0.028	300V	0.208	UL2093	31
5114	20	4	7/28	22	0.015	0.028	300V	0.228	UL2094	40
5120	18	2	16/30	20	0.018	0.028	300V	0.231	UL2092	30
5123	18	3	16/30	20	0.018	0.028	300V	0.240	UL2093	40
5124	18	4	16/30	20	0.010	0.035	300V	0.245	UL2464	47
5132*	16	2	19/29	18	0.032	0.030	600V	0.278	UL2106	55
5133*	16	3	19/29	18	0.030	0.030	600V	0.295	UL2107	60
5134*	16	4	19/29	18	0.030	0.030	600V	0.318	UL2107	82
5142*	14	2	19/27	16	0.032	0.035	600V	0.311	UL2106	63
5152*	12	2	65/30	14	0.032	0.042	600V	0.350	UL2106	99

* NEC CL2 Only.

UL® LISTED TYPE CL2

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT1 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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SHIELDED POWER LIMITED CIRCUIT CABLE, TYPE PLTC
105°C 300 VOLT - UL 2464 CSA FT-4 NEC ARTICLE 725

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #4.

Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

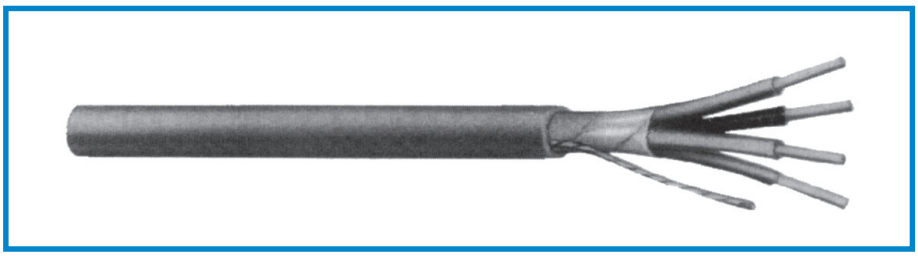
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +105°C.
- Voltage Rating: 300 volts.

Applications:
- Burglar alarms.
- Power limited circuits.
- Intercom systems.
- Business machines.
- Cash registers.
- Industrial control systems.
- Petrochemical refineries.

Features:
- Sunlight resistant PVC jacket.
- Good weather resistance.
- UL tray cable rated - Type PLTC.

Industry Approvals:
- NEC Article 725 Class 2 Power Limited Circuits.
- UL Style 2464.
- UL Subject 13, Type PLTC.
- Passes UL 70,000 BTU Vertical Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
3302	22	2	7/30	0.013	0.038	0.191	22
3303	22	3	7/30	0.013	0.038	0.199	27
3312	20	2	7/28	0.013	0.038	0.207	25
3313	20	3	7/28	0.013	0.038	0.217	32
3322	18	2	16/30	0.013	0.038	0.236	33
3323	18	3	16/30	0.013	0.038	0.248	41
3332	16	2	19/.0117	0.013	0.038	0.243	46
3333	16	3	19/.0117	0.013	0.038	0.255	56
3342	14	2	19/.0147	0.013	0.043	0.288	74
3343	14	3	19/.0147	0.013	0.043	0.298	92
3352	12	2	19/.0185	0.013	0.043	0.315	112

UL®
LISTED TYPE PLTC

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.
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COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR UNSHIELDED 60°C 350 VOLT RUBBER

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

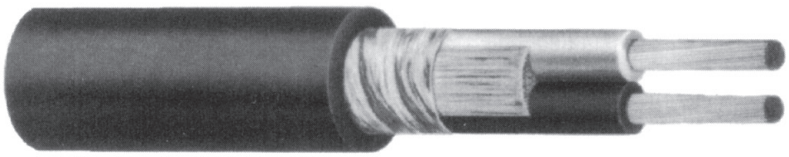
Insulation:
- Color coded rubber.
- Color Code: See Chart #5.

Jacket:
- Rubber, black.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 350 volts.

Applications:
- Energy management systems.
- Control circuits.
- Fire alarm control.
- Broadcast and studio requirements.

Features:
- Excellent impact resistance.
- High level of abrasion resistance.
- High flexibility.
- Excellent mechanical strength.
- Excellent moisture resistance.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
1650	20	2	26/34	0.020	0.035	0.240	36
1653	20	3	26/34	0.020	0.035	0.255	43
1654	20	4	26/34	0.020	0.035	0.275	52
1655	20	5	26/34	0.020	0.035	0.300	63
1656	20	6	26/34	0.020	0.035	0.315	74
1657	20	7	26/34	0.020	0.035	0.325	81
1658	20	8	26/34	0.020	0.035	0.360	88
1660	20	10	26/34	0.020	0.035	0.410	104
1662	20	12	26/34	0.020	0.035	0.460	145
1665	20	15	26/34	0.020	0.035	0.510	164
1670	20	20	26/34	0.020	0.035	0.610	219

MULTI-CONDUCTOR SPIRAL SHIELD
80°C 300 VOLT - UL 2095 NEC TYPE CL2 AND CM, CSA PCC

Construction

Conductor:
- Fully annealed tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #7.

Shield:
- 85% spiral tinned copper.

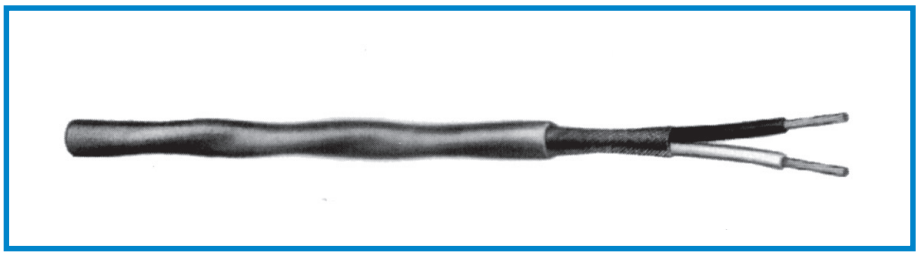
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Electronic circuits where RF shielding is required.
- Radio transmitters.
- Sound systems.
- Recording studios.

Features:
- Spiral shield allows ease of "pigtail soldering".
- Maximum flexibility.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM.
- UL Style 2095.
- Passes UL 70,000 BTU Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft or 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. pF/ft A	NOMINAL CAP. pF/ft B	NOMINAL WEIGHT LBS/MFT
SOLID CONDUCTORS									
7800	22	2	Solid	0.015	0.030	0.189	37	66	21
STRANDED CONDUCTORS									
7802	22	2	7/30	0.015	0.030	0.197	40	70	24
7803	22	3	7/30	0.015	0.030	0.206	37	66	30
7804	22	4	7/30	0.015	0.030	0.222	35	62	35
7806	22	6	7/30	0.015	0.030	0.257	34	60	47
7822	20	2	7/28	0.015	0.030	0.213	47	79	27
7823	20	3	7/28	0.015	0.030	0.223	42	76	36
7824	20	4	7/28	0.015	0.030	0.241	38	68	41
7826	20	6	7/28	0.015	0.030	0.279	37	66	55
7832	18	2	16/30	0.016	0.030	0.253	53	92	37
7833	18	3	16/30	0.016	0.030	0.266	43	78	48
7834	18	4	16/30	0.016	0.030	0.289	39	70	57
7842	16	2	19/29	0.016	0.030	0.277	57	98	49
7843	16	3	19/29	0.016	0.0030	0.292	40	72	61
NON-UL NON-NEC CL2 AND CM									
7852	14	2	41/30	0.020	0.030	0.290	52	93	66
7853	14	3	41/30	0.020	0.030	0.320	50	90	90
7862	12	2	65/30	0.020	0.030	0.345	60	110	91
7863	12	3	65/30	0.020	0.030	0.365	55	100	121

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

UL® LISTED TYPE CL2

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR BRAID SHIELD
80°C 300 VOLT - UL 2095 NEC TYPE CM, CSA PCC

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #4.

Shield:
- 75% tinned copper braid.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Electronic circuits where RF shielding is required.
- Radio transmitters.
- Sound systems.
- Recording studios.
- Provides good flexibility.
- Excellent shielding for noise reduction.

Industry Approvals:
- NEC Article 800 Type CM (UL: 75°C).
- UL Style 2095 (UL: 80°C, 300V).
- Passes UL 70,000 BTU Vertical Flame Test.
- CSA PCC (CSA: 60°C).

Packaging:
- 500 ft or 1000 ft spools.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. pF/ft A	NOMINAL CAP. pF/ft B	NOMINAL WEIGHT LBS/MFT
7602	22	2	7/30	0.015	0.030	0.212	38	68	27
7603	22	3	7/30	0.015	0.030	0.221	37	66	32
7604	22	4	7/30	0.015	0.030	0.237	35	62	39
7612	20	2	7/28	0.016	0.030	0.230	42	76	31
7613	20	3	7/28	0.016	0.030	0.240	42	76	39
7614	20	4	7/28	0.016	0.030	0.259	39	70	46
7622	18	2	16/30	0.016	0.030	0.252	44	80	44
7623	18	3	16/30	0.016	0.030	0.264	42	76	52
7624	18	4	16/30	0.016	0.030	0.286	40	72	67
7632	16	2	19/29	0.016	0.030	0.285	50	90	57
7633	16	3	19/29	0.016	0.030	0.299	46	82	64
NON-UL NON-NEC CL2 AND CM									
7642	14	2	41/30	0.020	0.030	0.317	52	93	71
7643	14	3	41/30	0.020	0.030	0.334	50	90	92
7652	12	2	65/30	0.020	0.030	0.359	60	110	94
7653*	12	3	65/30	0.020	0.030	0.379	55	100	125

* UL Style 2095.

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

LISTED
TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-CONDUCTOR BRAID SHIELD
60°C 300 VOLT - UL 2094 NEC TYPE CL2

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #5.

Shield:
- 80% tinned copper braid.

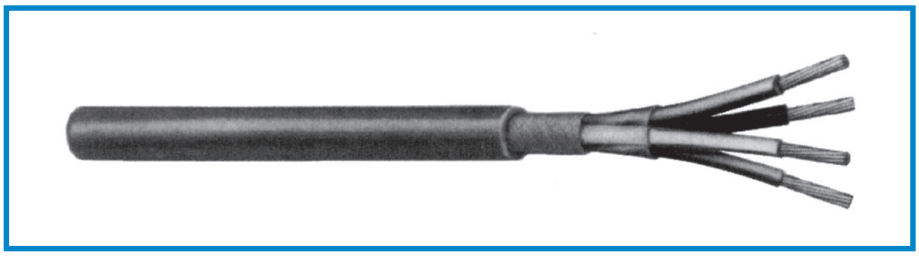
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 300 volts.

Applications:
- Electronic circuits where RF shielding is required.
- Video interconnect.
- Broadcast and Studio.
- Sound systems.

Features:
- Low capacitance.
- Light weight.
- Excellent shielding for noise reduction.
- Flexible.

Industry Approvals:
- NEC Article 725 Type CL2.
- UL Style 2092 (7702).
- UL Style 2093 (7703).
- UL Style 2094.
- Passes UL 70,000 BTU Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft or 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. pF/ft A	NOMINAL CAP. pF/ft B	NOMINAL WEIGHT LBS/MFT
7702	20	2	26/34	0.015	0.030	0.234	26	47	43
7703	20	3	26/34	0.015	0.030	0.244	25	45	53
7704	20	4	26/34	0.015	0.030	0.260	24	43	59
7705	20	5	26/34	0.015	0.030	0.282	21	38	74
7706	20	6	26/34	0.015	0.030	0.302	16	28	71
7708	20	8	26/34	0.015	0.045	0.350	16	28	90
7710	20	10	26/34	0.015	0.045	0.390	16	28	108
7712	20	12	26/34	0.015	0.045	0.405	16	28	115
7715	20	15	26/34	0.015	0.045	0.440	16	28	133
7720	20	20	26/34	0.015	0.045	0.480	16	28	164

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

Passes UL VW-1 Flame Test — **Passes UL-VW-1 Flame Test** Underwriters Laboratories Inc.

OSHA Acceptable Occupational Safety and Health Administration

Recognized Component Underwriters Laboratories Inc.

Custom Cable Corp.

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COMMUNICATION AND CONTROL CABLE

MULTI-CONDUCTOR BRAID SHIELD RUBBER 60°C

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded rubber.
- Color Code: See Chart #5.

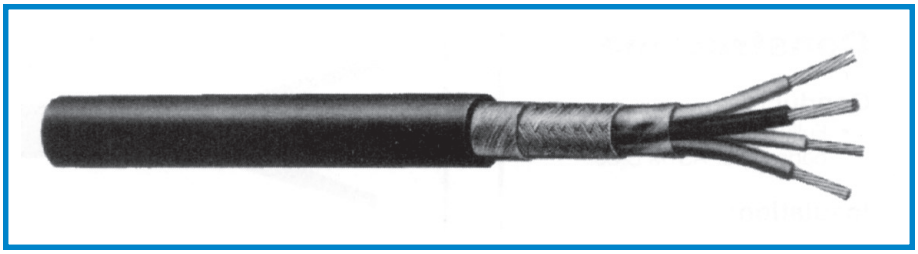
Shield:
- 80% tinned copper braid.

Jacket:
- Rubber, black.
- Temperature Range: -20°C to +60°C.
- Suggested voltage rating: 300 volts.

Applications:
- Control circuits.
- Broadcast and studio applications.
- Audio interconnects.

Features:
- Impact and abrasion resistant.
- Flexible conductor strands for superior limpness.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
7502	20	2	26/34	0.020	0.035	0.270	51
7503	20	3	26/34	0.020	0.035	0.285	56
7504	20	4	26/34	0.020	0.035	0.305	65
7505	20	5	26/34	0.020	0.035	0.330	80
7506	20	6	26/34	0.020	0.035	0.345	94
7507	20	7	26/34	0.020	0.035	0.360	100
7508	20	8	26/34	0.020	0.035	0.385	116
7510	20	10	26/34	0.020	0.035	0.440	130
7512	20	12	26/34	0.020	0.065	0.480	180
7520	20	20	26/34	0.020	0.065	0.570	280

MULTI-CONDUCTOR BRAID SHIELDED NEOPRENE JACKET 60°C

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded rubber.
- Color Code: See Chart #8.

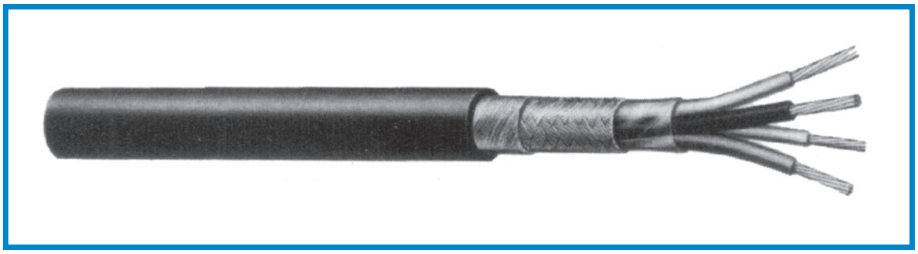
Shield:
- 80% tinned copper braid.

Jacket:
- Neopprene, black.
- Temperature Range: -20°C to +60°C.
- Suggested voltage Rating: 300 volts.

Applications:
- Control circuits.
- Broadcast and Studio applications.
- Audio interconnects.

Features:
- Impact and abrasion resistant.
- Flexible conductor.
- Passes VW-1 Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
7002	18	2	41/34	0.020	0.035	0.295	63
7003	18	3	41/34	0.020	0.035	0.305	66
7004	18	4	41/34	0.020	0.035	0.330	80
7006	18	6	41/34	0.020	0.035	0.370	115
7008	18	8	41/34	0.020	0.035	0.420	160
7010	18	10	41/34	0.020	0.035	0.480	200
7012	18	12	41/34	0.020	0.065	0.555	240
7015	18	15	41/34	0.020	0.065	0.640	290
7020	18	20	41/34	0.020	0.065	0.695	375
7102	16	2	65/34	0.025	0.035	0.335	85
7103	16	3	65/34	0.025	0.035	0.355	92
7104	16	4	65/34	0.025	0.035	0.385	107
7106	16	6	65/34	0.025	0.040	0.445	145
7108	16	8	65/34	0.025	0.040	0.510	230
7110	16	10	65/34	0.025	0.040	0.585	285
7202	14	2	41/30	0.030	0.040	0.395	125
7203	14	3	41/30	0.030	0.040	0.425	153
7204	14	4	41/30	0.030	0.040	0.475	180
7206	14	6	41/30	0.030	0.040	0.515	260
7302	12	2	65/30	0.030	0.040	0.440	130
7303	12	3	65/30	0.030	0.040	0.440	160
7304	12	4	65/30	0.030	0.040	0.505	200
7402	10	2	105/30	0.030	0.040	0.500	240
7403	10	3	105/30	0.030	0.040	0.520	300

MICROPHONE CABLE

BRAID SHIELD - 60°C LOW IMPEDANCE - 1000 VOLT

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded polyethylene.
- Fillers where required.
- Color Code: See Chart #1.

Shield:
- 80% tinned copper braid.

Jacket:
- PVC, silver gray.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 1000 volts.

Applications:
- Low impedance microphones.

Features:
- Jacket provides extreme flexibility.
- High abrasion resistance.
- Outstanding appearance.

Packaging:
- 1000 ft spools.

CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS INCHES		NOMINAL O.D.	NOM. CAP.* (pF/ft)	NOMINAL WEIGHT
	AWG/MCM			INSUL.	JACKET	INCHES		LBS/MFT
7900	22	2	16/34	0.025	0.025	0.239	31	37

* Between one conductor and remaining conductor connected to shield.

MICROPHONE CABLE

BRAID SHIELD NEOPRENE - 60°C 300 VOLT - LOW IMPEDANCE

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded rubber.
  Color Code: See Chart #1.

Shield:
- Clear mylar wrap.
- 80% tinned copper braid.
- Cotton wrap.

Jacket:
- Neoprene, black.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 300 volts.

Applications:
- Low impedance microphones.
- Studios.
- Control Circuits.
- Video and interconnecting cables.
- Shielded power supplies.

Features:
- Precision engineered to transmit clear, noise-free signals.
- Eliminates hum pick-up.
- Resistant to oil, acid, sunlight, abrasion and aging.
- Excellent noise rejection.

Packaging:
- 1000 ft spools.

CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS INCHES		NOMINAL O.D.	NOM. CAP.* (pF/ft)	NOMINAL WEIGHT
	AWG/MCM			INSUL.	JACKET	INCHES		LBS/MFT
7002	18	2	41/34	0.020	0.035	0.295	61	63
7102	16	2	65/34	0.025	0.035	0.335	55	85

* Between one conductor and remaining conductor connected to shield.

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SHIELDED POWER LIMITED CIRCUIT CABLE TYPE PLTC
105°C 300 VOLT - CSA PCC - UL 2464

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded PVC.
- Color code: Each pair Black and Red numbered at one inch intervals.

Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

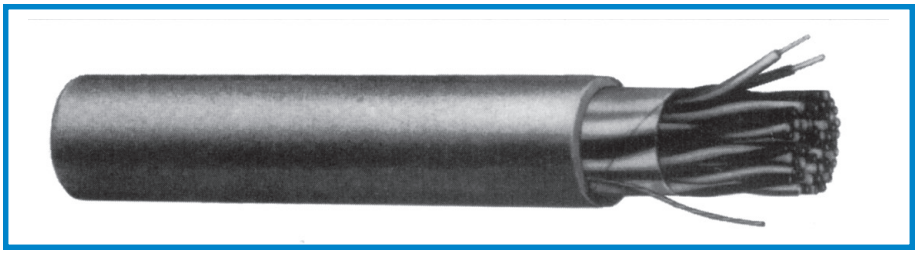
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +105°C.
- Voltage Rating: 300 volts.

Applications:
- Burglar alarms.
- Power limited circuits.
- Intercom systems.
- Business machines.
- Computer interconnects.
- Suitably marked for appropriate tray cable installations.

Features:
- Superior temperature characteristics.
- Robust, highly durable.
- Sunlight resistant jacket.

Industry Approvals:
- NEC Article 725 Class 2 Power Limited Circuits.
- UL Subject 13, Power Limited Tray Cable.
- Passes CSA PCC (CSA: 60°C)
- Passes UL 70,000 BTU Vertical Flame Test.
- UL 2464 (UL 80°C, 300V).

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
3402	22	2	7/30	0.015	0.043	0.294	44
3403	22	3	7/30	0.015	0.043	0.309	56
3404	22	4	7/30	0.015	0.043	0.337	66
3406	22	6	7/30	0.015	0.053	0.418	95
3409	22	9	7/30	0.015	0.053	0.480	128
3411	22	11	7/30	0.015	0.053	0.536	150
3415	22	15	7/30	0.015	0.053	0.594	187
3419	22	19	7/30	0.015	0.063	0.631	227
3427	22	27	7/30	0.015	0.063	0.741	327
3451	22	51	7/30	0.015	0.075	0.950	595
3502	18	2	16/30	0.015	0.043	0.314	71
3503	18	3	16/30	0.015	0.053	0.403	88
3504	18	4	16/30	0.015	0.053	0.440	117
3506	18	6	16/30	0.015	0.053	0.519	150
3509	18	9	16/30	0.015	0.063	0.622	227
3511	18	11	16/30	0.015	0.063	0.676	270
3515	18	15	16/30	0.015	0.063	0.750	335

LISTED TYPE PLTC

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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COMMUNICATION AND CONTROL CABLE

INDIVIDUALLY SHIELDED POWER LIMITED CIRCUIT CABLE
TYPE PLTC 105°C 300 VOLT UL 2464 CSA PCC

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded PVC.
- Color code: Each pair Black and Red numbered at one inch intervals.

Shield:
- Pairs are 100% individually shielded with aluminum/ polyester, foil facing in.
- Stranded tinned copper drain wire each pair.

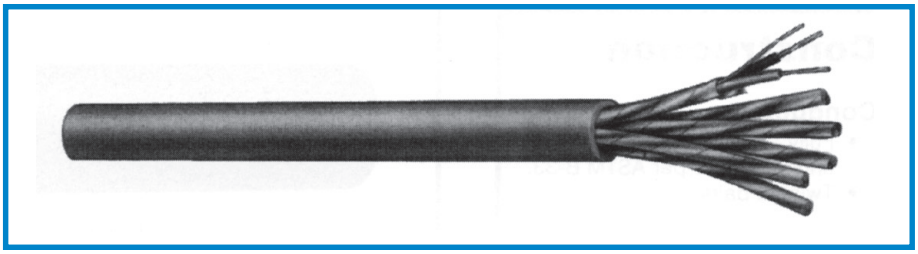
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +105°C.
- Voltage Rating: 300 volts.

Applications:
- Burglar alarms.
- Power limited circuits.
- Intercom systems.
- Business machines.
- Cash registers.
- Computer interconnects.
- Suitably marked for appropriate tray cable installations.

Features:
- Superior temperature characteristics.
- Robust, highly durable.
- Sunlight resistant jacket.

Industry Approvals:
- NEC Article 725 Class 2 Power Limited Circuits.
- UL Style 2464 (UL 80°, C 300V).
- UL Subject 13, Power Limited Tray Cable.
- Recognized Component per UL 2464.
- CSA PCC (CSA: 60°C).
- Passes UL 70,000 BTU Flame Test.
- Passes CSA FT-4 Vertical Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
3602	22	2	7/30	0.015	0.043	0.327	48
3603	22	3	7/30	0.015	0.043	0.345	62
3604	22	4	7/30	0.015	0.043	0.378	75
3606	22	6	7/30	0.015	0.053	0.469	114
3609	22	9	7/30	0.015	0.053	0.542	150
3611	22	11	7/30	0.015	0.053	0.515	182
3615	22	15	7/30	0.015	0.053	0.587	229
3619	22	19	7/30	0.015	0.063	0.686	300
3627	22	27	7/30	0.015	0.063	0.770	399
3651	22	51	7/30	0.015	0.075	1.050	753
3702	18	2	16/30	0.015	0.043	0.380	77
3703	18	3	16/30	0.015	0.053	0.437	108
3704	18	4	16/30	0.015	0.053	0.478	131
3706	18	6	16/30	0.015	0.053	0.566	188
3709	18	9	16/30	0.015	0.063	0.679	279
3711	18	11	16/30	0.015	0.063	0.639	350
3715	18	15	16/30	0.015	0.063	0.731	428

LISTED TYPE PLTC

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-PAIRED FOIL SHIELD
80°C 300 VOLT - UL 2464 CSA T-2 NEC TYPE CL2 AND CM/MP FT-4

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded PVC.
- Color Code:
  See Chart #9 (6302-6327).
  See Chart #10 (6338-6352).

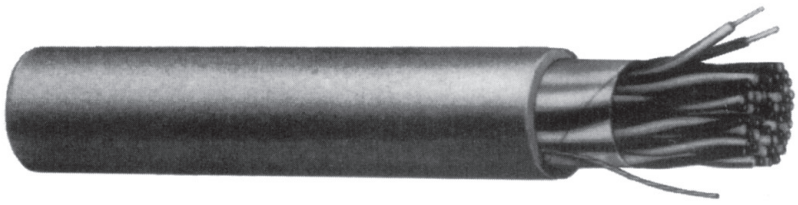
Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Audio systems.
- Communication circuits.
- Instrumentation and control use.

Industry Approvals:
- NEC Article 800 Type CM/MP.
- UL 75°C - 300V.
- CSA PCC (CSA: 60°C)
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
6302	22	2	Solid	0.010	0.032	0.218	27
6304	22	4	Solid	0.010	0.032	0.249	45
6306	22	6	Solid	0.010	0.032	0.292	69
6309	22	9	Solid	0.010	0.032	0.338	78
6315	22	15	Solid	0.010	0.032	0.419	125
6319	22	19	Solid	0.010	0.032	0.500	170
6327	22	27	Solid	0.012	0.040	0.595	215
6338	22	38	Solid	0.008	0.045	0.610	256
6351	22	51	Solid	0.010	0.050	0.721	381
6352	22	102	Solid	0.010	0.085	1.120	879

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

UL® LISTED TYPE CM/MP

COMMUNICATION AND CONTROL CABLE

MULTI-PAIRED INDIVIDUALLY SHIELDED
80°C 300 VOLT - UL 2464 CSA T-2 NEC TYPE CL2 CM AWM

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code: See Chart #11.

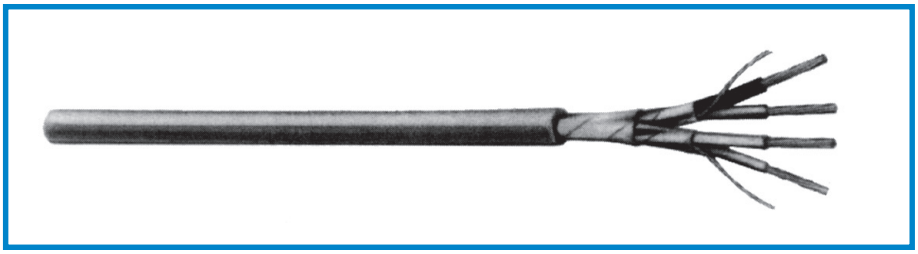
Shield:
- Individually shielded pairs.
- 100% aluminum/polyester, 25% overlap, toil facing in.
- Stranded tinned copper drain wire.

Jacket:
- PVC, gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Computer interconnections.
- Data transmission.
- Control circuits.
- Industrial equipment control.

Industry Approvals:
- NEC Article 725 Type CL2.
- UL Style 2464.
- CSA T-2.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-1 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	INCHES	LBS/MFT
5323	20	2	7/28	0.010	0.041	0.300	48

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MULTI-PAIRED INDIVIDUALLY SHIELDED
75°C 300 VOLT - NEC TYPE CL2 AND CM/MP

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded polypropylene.
- Color Code: See Chart #11.

Shield:
- Individually shielded pairs.
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +75°C.
- Voltage Rating: 300 volts.

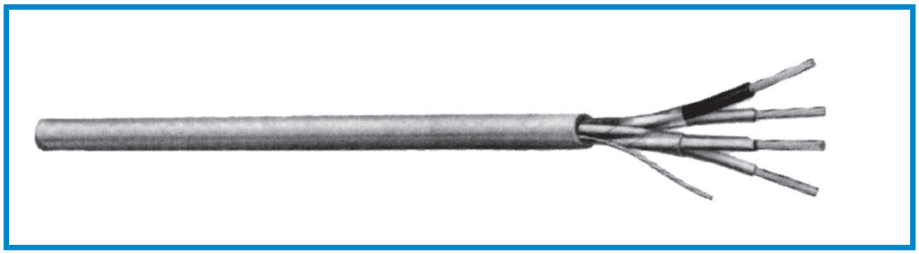
Applications:
- Where total isolation of signal is required.
- Computers.
- Control circuits.
- Industrial equipment.

Equipment Interfaces:
- SWEDA 800 terminal series.

Features:
- Excellent high frequency properties.
- Mechanical durability.

Industry Approvals:
- NEC Article 800 Type CM (UL: 75°C, 300V).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT1 Flame Test.

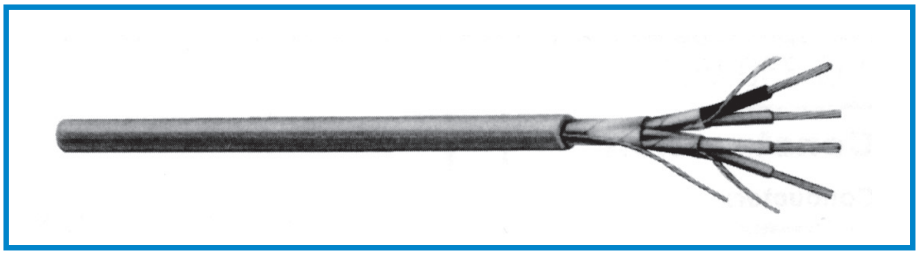
Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. pF/ft A	NOMINAL CAP. pF/ft B	NOMINAL WEIGHT LBS/MFT
NEC TYPE CM-CSA PCC FT1									
5313	22	2	7/30	0.008	0.020	0.165	35	63	24

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. pF/ft A	NOMINAL CAP. pF/ft B	NOMINAL WEIGHT LBS/MFT
NEC TYPE CM UL STYLE 2835 CSA PCC FT1									
5312	22	2	7/30	0.009	0.030	0.206	35	62	28

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

LISTED TYPE CM

Recognized Component
Underwriters Laboratories Inc.

FT1 Certified
Canadian Standard Association

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SPECIAL AUDIO, COMMUNICATION, AND INSTRUMENTATION

80°C 30 VOLT - UL 2835 300 VOLT UL 2095

P

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Premium grade color coded PVC (5322).
- Color coded polypropylene (5314).
- Twisted pairs.
- Color Code: See Chart #20.

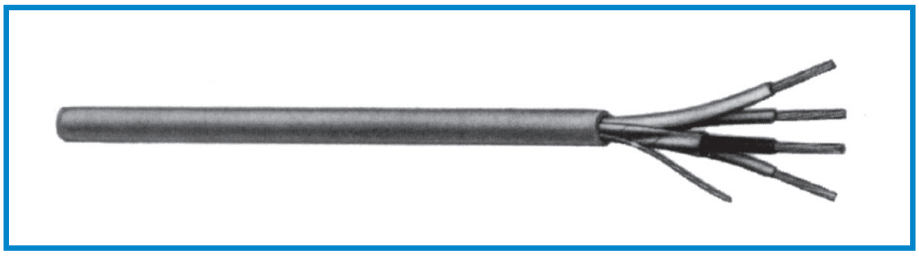
Shield:
- 100% Aluminum/polyester, over 2 conductors, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Special audio, communication and instrumentation uses requiring shielded groups to isolate circuits.

Industry Approvals:
- 5322 - UL 2095 (300 volts) - 80°C.
- 5314 - UL 2835 (30 volts) - 60°C.
- UL 70,000 BTU Vertical Flame Test.

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP (pF/ft) A	NOMINAL CAP (pF/ft) B	NOMINAL WEIGHT LBS/MFT
5322	20-2 Shielded 20-2 Unshielded	2	7/28	0.016	0.032	0.230	41	74	34
5314	22-2 Shielded 22-2 Unshielded	2	7/30	0.008	0.020	0.167	29	52	24

A - Capacitance between conductors.
B - Capacitance between 1 conductor and other conductors connected to shield.

Recognized Component
Underwriters Laboratories Inc.

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

UL
LISTED
TYPE CL2

DIRECT BURIAL AUDIO, AND COMMUNICATION

80°C 350 VOLT

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

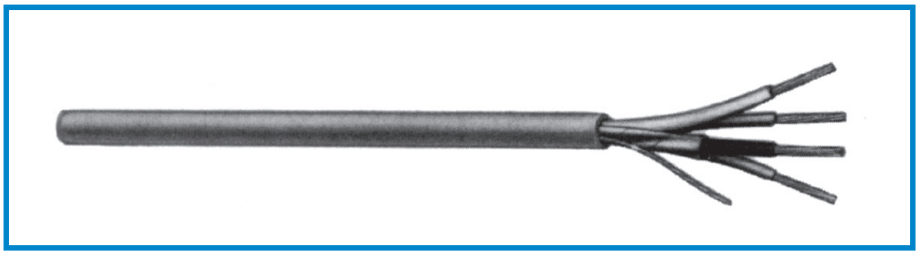
Insulation:
- Color coded polypropylene.
- Color Code: See Chart #9.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing in.
- 22 AWG stranded tinned copper drain wire each pair.

Jacket:
- High density polyethylene, black.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 350 volts.

Applications:
- Suitable for direct burial.
- Outdoor uses.
- Applications where total isolation of signal is required.

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL CAP (pF/ft) A	NOMINAL CAP (pF/ft) B	NOMINAL WEIGHT LBS/MFT
6783	20	3	10/30	0.013	0.045	0.340	30	55	58
6786	20	6	10/30	0.013	0.045	0.442	30	55	110

A - Conductor to conductor.

B - Capacitance between 1 conductor and other conductors connected to shield.

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SHIELDED - PVC JACKET - 105°C 600V

Construction

Conductor:
- Stranded tinned copper.

Insulation:
- Polyvinylchloride and 0.003" clear nylon insulation, conductors cabled.
- Color Code: See Chart #23.

Shield:
- Overall tinned copper braid shield (90%).

Jacket:
- White polyvinyl.

Temperature Rating:
- -55°C to +105°C.

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	LBS/MFT
8321	22	1	19/34	0.010	0.100	11
8322	22	2	19/34	0.020	0.176	21
8323	22	3	19/34	0.020	0.184	27
8324	22	4	19/34	0.020	0.200	31
8331	20	1	19/32	0.010	0.109	13
8332	20	2	19/32	0.020	0.192	26
8333	20	3	19/32	0.025	0.210	34
8334	20	4	19/32	0.025	0.226	40
8341	18	1	19/30	0.012	0.120	16
8342	18	2	19/30	0.021	0.210	37
8343	18	3	19/30	0.022	0.227	42
8344	18	4	19/30	0.023	0.250	61
8351	16	1	19/29	0.016	0.143	21
8352	16	2	19/29	0.025	0.250	41
8353	16	3	19/29	0.025	0.264	53
8354	16	4	19/29	0.027	0.291	65
8361	14	1	19/27	0.011	0.145	25
8362	14	2	19/27	0.018	0.265	48

MONSTER SPEAKER CABLE

MULTI-CONDUCTOR - UNSHIELDED
HEAVY DUTY - HIGH DEFINITION - LOW LOSS

P

Construction

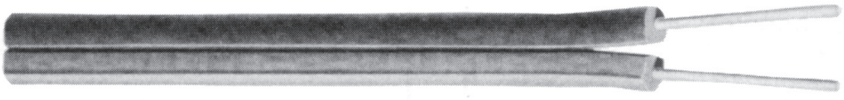
Conductor:
- Stranded oxygen free bare copper.

Insulation:
- PVC 60°C.

Jacket:
- Clear PVC jacket.

Applications:
- Extremely low capacitance resistance and inductance to transfer music signals from amplifier to speakers with high clarity.

Packaging:
- 500 ft., 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			JACKET	INCHES	LBS/MFT
SK®18	18	2	63/36	.054	.160x.335	33
SK®16	16	2	105/36	.047	.160x.335	37
SK®14	14	2	168/36	.058	.200x.415	60
SK®12	12	2	259/36	.048	.200x.415	70
SK®10	10	2	413/36	.054	.240x.485	104
SK®8	8	2	665/36	.040	.250x.500	140

NOTE: Fluorescent color available on special order. Check factory.

MULTI-CONDUCTOR - UNSHIELDED - RISER
NEC TYPE CMR AND/OR CL3R

Construction

Conductor:
- Stranded or solid bare copper to ASTM B-3, B-8 and B-286.

Insulation:
- Color coded S-R PVC.

Jacket:
- Gray PVC.
- Suitable for use from -20°C to +75°C.
- Includes ripcord.

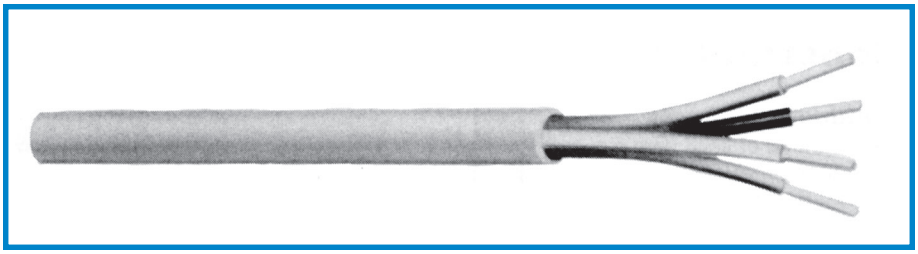
Applications:
- Power limited control circuits.
- Wiring of the following systems:
  - Intercom
  - Security
  - Audio
  - Background music
- Suggested voltage rating: 300 volts.

Industry Approvals:
- NEC Article 725 Type CL3R (UL: 75°C, 150V).
- NEC Article 800 Type CMR (UL: 75°C, 300V).

Packaging:
- 500 ft., 1000 ft. putups.

Color Code Chart

No. of Conductors	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Violet
10	Gray
11	Pink
12	Tan



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
5150	22	2	Solid	0.008	0.015	0.118	8
5151	22	4	Solid	0.008	0.015	0.128	14
5155	22	2	7/30	0.007	0.015	0.115	9
5156	22	3	7/30	0.007	0.015	0.125	11
5157	22	4	7/30	0.007	0.015	0.135	15
5158	22	6	7/30	0.007	0.017	0.165	21
5159	22	8	7/30	0.007	0.018	0.180	27
5160	22	10	7/30	0.007	0.020	0.215	35
5161	22	12	7/30	0.007	0.020	0.220	40
5165	20	2	7/28	0.008	0.016	0.135	12
5166	20	3	7/28	0.008	0.017	0.145	17
5167	20	4	7/28	0.008	0.018	0.160	22
5170	18	2	Solid	0.009	0.015	0.144	16
5171	18	2	7/26	0.010	0.015	0.165	18
5172	18	3	7/26	0.009	0.015	0.166	23
5173	18	4	7/26	0.009	0.015	0.187	30
5175	16	2	19/.0117	0.010	0.020	0.195	27
5177	16	4	19/.0117	0.010	0.022	0.230	49
5180*	14	2	19/.0147	0.013	0.015	0.240	42
5183*	12	2	19/.0185	0.013	0.015	0.285	62

* NEC CL3R

UL® LISTED Type CMR

UL® LISTED Type CL3R

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SOUND AND SECURITY CABLE

MULTI-CONDUCTOR, SHIELDED, RISER
NEC TYPE CMR AND/OR CL3R

P

Construction

Conductor:
- Stranded or solid bare copper to ASTM B-3, B-8 and B-286.

Insulation:
- Color coded S-R PVC.

Jacket:
- Gray PVC.
- Suitable for use from -20°C to +75°C.
- Includes ripcord.

Shield:
- 100% Overall aluminum/ polyester.
- Stranded tinned copper drain wire.

Applications:
- Power limited control circuits.
- Wiring of the following systems:
  - Intercom
  - Security
  - Audio
  - Background music
- Suggested voltage rating: 300 volts.

Industry Approvals:
- NEC Article 725 Type CL3R (UL: 75°C, 150V).
- NEC Article 800 Type CMR (UL: 75°C, 300V).

Packaging:
- 500 ft., 1000 ft. putups.

CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
5250	22	2	Solid	0.008	0.015	0.117	10
5252	22	2	7/30	0.007	0.015	0.120	11
5253	22	3	7/30	0.007	0.016	0.130	14
5254	22	4	7/30	0.007	0.016	0.140	17
5255	22	6	7/30	0.007	0.020	0.175	24
5256	22	8	7/30	0.007	0.020	0.185	31
5257	22	10	7/30	0.007	0.020	0.215	37
5258	22	12	7/30	0.007	0.025	0.235	45
5265	20	2	7/28	0.008	0.015	0.139	14
5266	20	3	7/28	0.008	0.017	0.150	19
5267	20	4	7/28	0.008	0.018	0.165	24
5270	18	2	Solid	0.009	0.015	0.151	19
5271	18	2	7/26	0.010	0.015	0.165	21
5272	18	3	7/26	0.010	0.018	0.180	29
5273	18	4	7/26	0.010	0.020	0.205	37
5275	16	2	19/.0117	0.010	0.020	0.195	31
5280*	14	2	19/.0147	0.010	0.017	0.225	44
5285*	12	2	19/.0185	0.012	0.025	0.285	71

* NEC CL3R

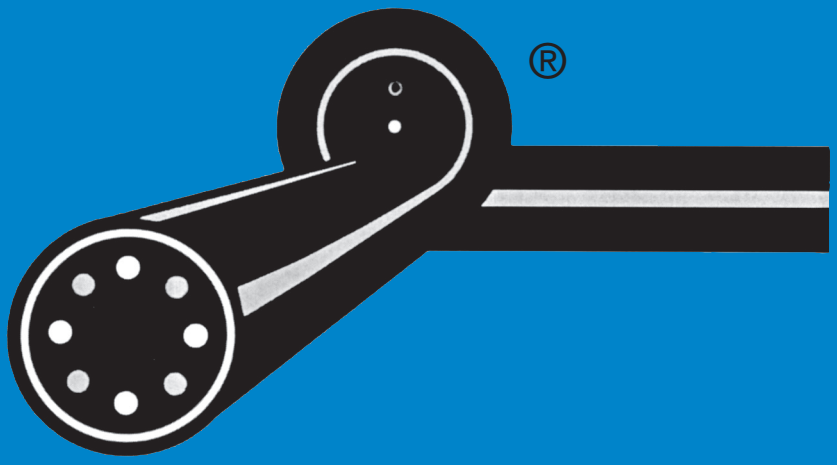
Color Code Chart

No. of Conductors	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Violet
10	Gray
11	Pink
12	Tan

UL® LISTED Type CMR

UL® LISTED Type CL3R

COMPUTER CABLE



COMPUTER CABLE

MULTI-CONDUCTOR FOIL SHIELD
80°C 300 VOLT UL 2464 CSA PCC NEC TYPE CM

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code:
  See Chart #1 (6002-6010).
  See Chart #2 (6015-6055).

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

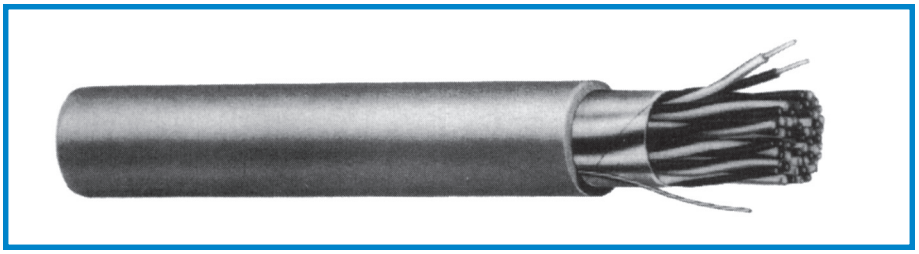
Applications:
- Computer interconnections.
- Data transmission.
- Control circuits.
- Industrial equipment control.
- Suitable for EIA RS-232 applications.

Equipment Interfaces:
- Stratus/32 processing system.
- DEC EIA extension cable.
- DEC interface systems.

Features:
- Heavy duty jacket for superior abrasion resistance.

Industry Approvals:
- NEC Article 800 Type CM.
- UL Style 2464.
- CSA PCC (CSA: 60°C).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
6002	24	2	7/32	0.010	0.032	0.159	18
6003	24	3	7/32	0.010	0.032	0.165	20
6004	24	4	7/32	0.010	0.032	0.180	23
6005	24	5	7/32	0.010	0.032	0.195	25
6006	24	6	7/32	0.010	0.032	0.202	31
6007	24	7	7/32	0.010	0.032	0.215	32
6008	24	8	7/32	0.010	0.032	0.225	36
6009	24	9	7/32	0.010	0.032	0.240	39
6010	24	10	7/32	0.010	0.032	0.250	42
6015	24	15	7/32	0.010	0.032	0.277	54
6020	24	20	7/32	0.010	0.032	0.303	66
6025	24	25	7/32	0.010	0.032	0.345	90
6030	24	30	7/32	0.010	0.032	0.365	93
6040	24	40	7/32	0.010	0.032	0.405	113
6050	24	50	7/32	0.010	0.032	0.445	138
6055	24	60	7/32	0.010	0.032	0.475	161

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

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MULTI-CONDUCTOR FOIL SHIELD
80°C 300 VOLT UL 2464 CSA PCC NEC TYPE CM

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded PVC.
- Color Code: See Chart #2.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +75°C (UL), -20°C to +90°C (CSA).
- Voltage Rating: 300 volts.

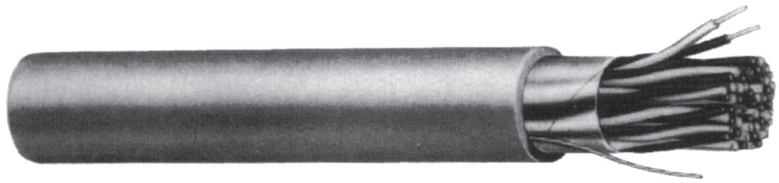
Applications:
- Computer interconnections.
- Data transmission.
- Control circuits.
- Industrial equipment control.
- Suitable for EIA RS-232 applications.

Equipment Interfaces:
- Stratus/32 processing system.
- DEC EIA extension cable.
- DEC interface systems.

Features:
- Heavy duty jacket for superior abrasion resistance.

Industry Approvals:
- NEC Article 800 Type CM.
- UL Style 2464.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- CSA PCC (CSA: 60°C).

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
6060	22	2	7/30	0.010	0.032	0.169	19
6061	22	3	7/30	0.010	0.032	0.177	23
6062	22	4	7/30	0.010	0.032	0.190	27
6063	22	6	7/30	0.010	0.032	0.219	36
6064	22	8	7/30	0.010	0.032	0.235	43
6065	22	10	7/30	0.010	0.032	0.269	50
6070	22	15	7/30	0.010	0.032	0.304	68
6075	22	20	7/30	0.010	0.032	0.335	86
6080	22	25	7/30	0.010	0.032	0.369	104
6090	20	2	7/28	0.015	0.032	0.207	29
6091	20	3	7/28	0.015	0.032	0.217	35
6092	20	4	7/28	0.015	0.032	0.236	41
6093	20	6	7/28	0.015	0.032	0.276	54
6094	20	8	7/28	0.015	0.032	0.297	65
6095	20	10	7/28	0.015	0.032	0.345	78
6096	20	15	7/28	0.015	0.032	0.393	106
6097	20	20	7/28	0.015	0.032	0.435	136
6098	20	25	7/28	0.015	0.032	0.448	165

Q

UL® LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Recognized Component
Underwriters Laboratories Inc.

FT4 Certified
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Custom Cable Corp.

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COMPUTER CABLE

MULTI-CONDUCTOR FOIL/BRAID SHIELD
80°C 300 VOLT - UL 2464 CSA PCC NEC TYPE CM

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code: See Chart #12.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- 65% tinned copper braid.

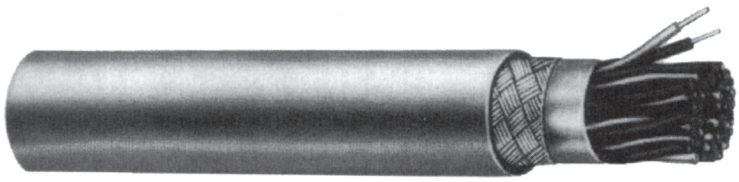
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Features:
- Provides good flexibility.
- Superior shielding where noise rejection is critical.
- Aids system designers to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM.
- UL Style 2464.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-1 FlameTest.
- CSA PCC (CSA: 60°C).

Packaging:
- 500 ft,1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	DCR (Ω/M)		NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	COND.	SHIELD	LBS/MFT
6450	24	3	7/32	0.010	0.032	0.183	24	8.6	20
6451	24	4	7/32	0.010	0.032	0.193	24	9.8	30
6452	24	5	7/32	0.010	0.032	0.218	24	6.5	35
6453	24	6	7/32	0.010	0.032	0.223	24	7.0	39
6454	24	7	7/32	0.010	0.032	0.223	24	7.1	43
6455	24	8	7/32	0.010	0.032	0.223	24	7.3	45
6456	24	9	7/32	0.010	0.032	0.256	24	7.5	49
6457	24	10	7/32	0.010	0.032	0.263	24	6.9	52
6458	24	15	7/32	0.010	0.032	0.304	24	6.0	73
6459	24	20	7/32	0.010	0.032	0.329	24	5.8	86
6460	24	25	7/32	0.010	0.032	0.359	24	5.1	102
6461	24	30	7/32	0.010	0.032	0.379	24	4.8	115

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

LISTED
Type CM

LISTED
Type CL2

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-CONDUCTOR FOIL/BRAID SHIELD
80°C 300 VOLT - UL 2464 CSA PCC NEC TYPE CM

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code:
  See Chart #1 (6470-6477).
  See Chart #2 (6478-6481).

Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- 65% tinned copper braid.

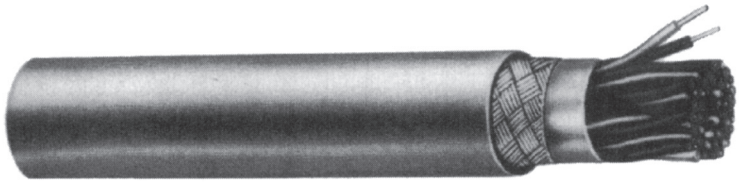
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Features:
- Provides good flexibility.
- Superior shielding where noise rejection is critical.
- Aids system designers to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM (UL 75°C).
- UL Style 2464.
- CSA PCC (CSA: 60C°).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.

Packaging:
- 500 ft, 1000 ft. or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	DCR (Ω/M) COND.	DCR (Ω/M) SHIELD	NOMINAL WEIGHT LBS/MFT
6470	22	3	7/30	0.010	0.032	0.198	15	6.2	31
6471	22	4	7/30	0.010	0.032	0.208	15	5.0	33
6472	22	5	7/30	0.010	0.032	0.230	15	7.1	35
6473	22	6	7/30	0.010	0.032	0.238	15	7.9	40
6474	22	7	7/30	0.010	0.032	0.245	15	7.9	44
6475	22	8	7/30	0.010	0.032	0.253	15	5.1	47
6476	22	9	7/30	0.010	0.032	0.280	15	5.1	55
6477	22	10	7/30	0.010	0.032	0.288	15	4.9	65
6478	22	15	7/30	0.010	0.032	0.329	15	4.1	90
6479	22	20	7/30	0.010	0.032	0.359	15	3.7	110
6480	22	25	7/30	0.010	0.032	0.394	15	3.1	130
6481	22	30	7/30	0.010	0.032	0.419	15	2.9	150

Q

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Recognized Component
Underwriters Laboratories Inc.

LISTED
TYPE CM

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COMPUTER CABLE

MULTI-CONDUCTOR FOIL/BRAID SHIELD
80°C 30 VOLT - UL 2919 LOW CAPACITANCE® NEC TYPE CM

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Foamed low capacitance color coded polypropylene.
- Color Code: See Chart #2.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- 70% tinned copper braid.

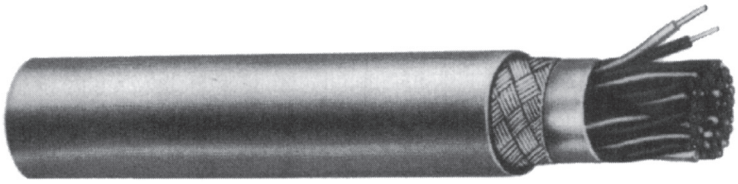
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 30 volts (UL).

Applications:
- High speed computers.
- Industrial equipment.
- Control circuits.
- Designed for low capacitance applications.
- Suitable for EIA RS-232 and RS-423 CAD/CAM applications.

Features:
- Provides good flexibility.
- Superior shielding where noise rejection is critical.
- Aids system designers to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM.
- UL Style 2919 (UL: 80°C, 30V).
- Passes UL 70,000 BTU Vertical Flame Test.
- CSA PCC (CSA: 60°C).

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	DCR (Ω/M)		NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	COND.	SHIELD	LBS/MFT
6490	24	3	7/32	0.016	0.032	0.211	26	5.2	27
6491	24	4	7/32	0.016	0.032	0.227	26	5.3	30
6492	24	5	7/32	0.016	0.032	0.242	26	4.2	33
6493	24	6	7/32	0.016	0.032	0.259	26	4.4	41
6494	24	7	7/32	0.016	0.032	0.259	26	4.4	42
6495	24	8	7/32	0.016	0.032	0.276	26	4.4	46
6496	24	9	7/32	0.016	0.032	0.293	26	3.9	52
6497	24	10	7/32	0.016	0.032	0.315	26	3.2	56
6498	24	15	7/32	0.016	0.032	0.354	26	3.6	73
6499	24	25	7/32	0.016	0.032	0.445	26	2.8	104

FT1 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

LISTED
Type CM

LISTED
Type CL2

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-PAIRED FOIL SHIELD
80°C 300 VOLT UL 2464 CSA PCC NEC TYPE CM

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted Pairs.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code:
  See Chart #9 (6201-6225).
  See Chart #10 (6250).

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

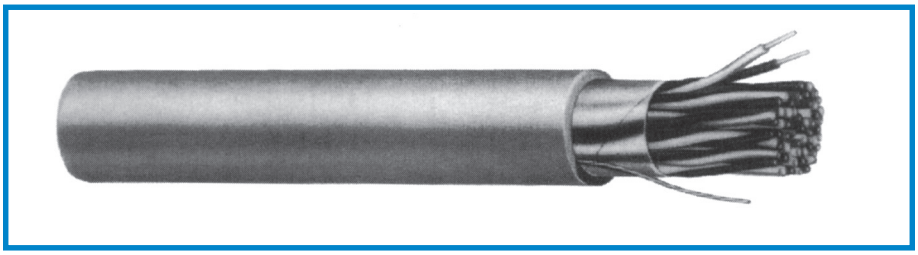
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Features:
- Provides good flexibility.
- Superior shielding where noise rejection is critical.
- Aids system designers to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM (UL: 75°C).
- UL Style 2464 (UL: 80°C, 300V).
- CSA PCC (CSA: 60°C).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft) A	NOM. CAP. (pF/ft) B	DCR (Ω/M) C	DCR (Ω/M) D	NOMINAL WEIGHT LBS/MFT
6201	24	1	7/32	0.010	0.032	0.155	40	74	24	18.0	14
6202	24	2	7/32	0.010	0.032	0.210	30	50	24	18.0	30
6203	24	3	7/32	0.010	0.032	0.215	30	50	24	16.5	27
6204	24	4	7/32	0.010	0.032	0.235	30	50	24	16.5	36
6205	24	5	7/32	0.010	0.032	0.255	30	50	24	16.5	47
6206	24	6	7/32	0.010	0.032	0.275	30	50	24	15.2	50
6207	24	7	7/32	0.010	0.032	0.290	30	50	24	15.2	55
6208	24	8	7/32	0.010	0.032	0.305	30	50	24	15.0	65
6209	24	9	7/32	0.010	0.032	0.320	30	50	24	15.0	70
6210	24	10	7/32	0.010	0.032	0.335	30	50	24	14.0	81
6215	24	15	7/32	0.010	0.032	0.390	30	50	24	13.8	108
6219	24	19	7/32	0.010	0.032	0.440	30	50	24	13.5	131
6225	24	25	7/32	0.010	0.032	0.510	30	50	24	12.7	167
6250	24	50	7/32	0.010	0.032	0.690	30	50	24	11.3	314

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

C - Conductor Resistance.

D - Shield Resistance.

Q

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

LISTED
TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

COMPUTER CABLE

MULTI-PAIRED FOIL SHIELD
80°C 300 VOLT UL 2464 CSA PCC NEC TYPE CM

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded semi-rigid PVC per UL 1061.
- Color Code:
  See Chart #9 (6261-6283).
  See Chart #10 (6285).

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

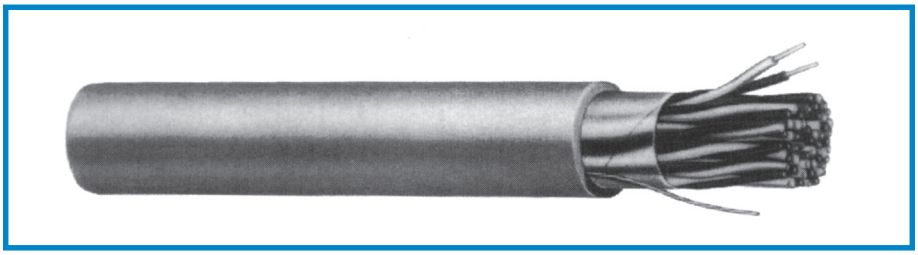
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.
- Control circuits.
- Suitable for EIA RS-232 applications.

Features:
- Provides good flexibility.
- Superior shielding where noise rejection is critical.
- Aids system designers to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM (UL: 75°C).
- UL Style 2464 (UL: 80°C, 300V).
- CSA PCC (CSA: 60°C).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 FlameTest.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft) A	NOM. CAP. (pF/ft) B	DCR (Ω/M) C	DCR (Ω/M) D	NOMINAL WEIGHT LBS/MFT
6261	22	1	7/30	0.010	0.032	0.175	40	74	15	18.0	20
6262	22	2	7/30	0.010	0.032	0.230	40	74	15	16.5	32
6263	22	3	7/30	0.010	0.032	0.240	35	63	15	16.5	40
6264	22	4	7/30	0.010	0.032	0.265	35	63	15	16.5	49
6265	22	5	7/30	0.010	0.032	0.290	35	63	15	16.5	55
6266	22	6	7/30	0.010	0.032	0.310	35	63	15	15.2	66
6269	22	9	7/30	0.010	0.032	0.360	35	63	15	14.0	85
6271	22	11	7/30	0.010	0.032	0.390	35	63	15	14.0	100
6275	22	15	7/30	0.010	0.032	0.430	35	63	15	13.8	132
6279	22	19	7/30	0.010	0.032	0.505	35	63	15	12.7	156
6283	22	27	7/30	0.010	0.032	0.605	35	63	15	12.0	230
6285	22	51	7/30	0.010	0.032	0.850	35	63	15	11.0	398

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

C - Conductor Resistance.

D - Shield Resistance.

FT4 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

LISTED
TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-PAIRED FOIL/BRAID SHIELD
80°C 30 VOLT UL 2919 LOW CAPACITANCE NEC TYPE CL2, CSA, PCC

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded low capacitance foamed polypropylene. Color Code: See Chart #13.

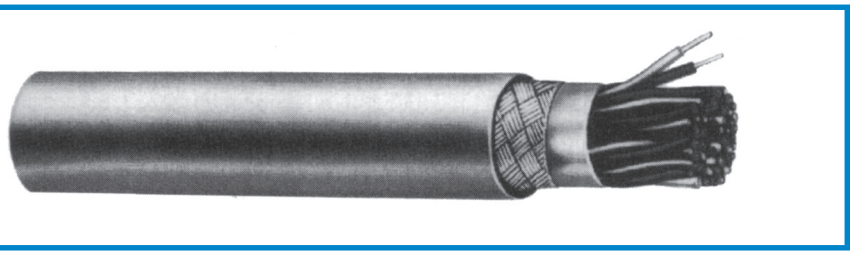
Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- 65% tinned copper braid.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 30 volts.

Applications:
- High speed computer interconnects.
- CAD/CAM systems.
- EIA RS-232 and RS-423 systems.
- Transmission of data where low capacitance (12-14 pF/ft) is required.
- Control circuits.
- Industrial equipment.
- Low signal distortion data requirements.

Industry Approvals:
- NEC Article 725 Type CL2.
- UL Style 2919 (UL: 80°C, 30V).
- Passes UL 70,000 BTU Vertical Flame Test.
- CSA PCC (CSA: 60°C).

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOM. CAP. (pF/ft)		DCR (Ω/M)		NOM. IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	A	B	C	D			LBS/MFT
NEC TYPE CL2													
6550	28	2	7/36	0.016	0.032	0.246	11.0	22	64.9	5.1	120	78	30
6551	28	3	7/36	0.016	0.032	0.258	11.0	22	64.9	5.2	120	78	36
6552	28	4	7/36	0.016	0.032	0.279	11.0	22	64.9	4.4	120	78	41
6553	28	5	7/36	0.016	0.032	0.300	11.0	22	64.9	4.2	120	78	43
6554	28	6	7/36	0.016	0.032	0.324	11.0	22	64.9	4.4	120	78	52
6555	28	7	7/36	0.016	0.032	0.324	11.0	22	64.9	4.2	120	78	54
6556	28	8	7/36	0.016	0.032	0.348	11.0	22	64.9	3.7	120	78	58
6557	28	10	7/36	0.016	0.038	0.401	11.0	22	64.9	3.4	120	78	70
6558	28	12½	7/36	0.016	0.038	0.350	11.0	22	64.9	3.1	120	78	73
6559	28	15	7/36	0.016	0.038	0.455	11.0	22	64.9	2.5	120	78	129
6560	28	18	7/36	0.016	0.042	0.479	11.0	22	64.9	2.6	120	78	100
6561	28	25	7/36	0.016	0.045	0.588	11.0	22	64.9	2.3	120	78	126
NEC TYPE CL2 AND CM													
6570	24	2	7/32	0.016	0.032	0.268	12.5	22	24	4.6	100	78	42
6571	24	3	7/32	0.016	0.032	0.290	12.5	22	24	3.8	100	78	48
6572	24	4	7/32	0.016	0.032	0.315	12.5	22	24	4.1	100	78	58
6573	24	5	7/32	0.016	0.032	0.340	12.5	22	24	4.2	100	78	62
6574	24	6	7/32	0.016	0.032	0.368	12.5	22	24	3.5	100	78	70
6575	24	7	7/32	0.016	0.032	0.370	12.5	22	24	3.5	100	78	73
6576	24	8	7/32	0.016	0.032	0.397	12.5	22	24	2.7	100	78	85
6577	24	10	7/32	0.016	0.038	0.473	12.5	22	24	2.4	100	78	104
6578	24	12½	7/32	0.016	0.038	0.486	12.5	22	24	2.4	100	78	115
6579	24	15	7/32	0.016	0.045	0.555	12.5	22	24	2.6	100	78	141
6580	24	18	7/32	0.016	0.045	0.585	12.5	22	24	2.1	100	78	161
6581	24	25	7/32	0.016	0.045	0.677	12.5	22	24	2.0	100	78	201

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

C - Conductor Resistance.

D - Shield Resistance.

FT1 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

LISTED
TYPE CL2

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

Custom Cable Corp.

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COMPUTER CABLE

MULTI-PAIRED FOIL/BRAID SHIELD
80°C 30 VOLT UL 2919 NEC TYPE CL2 AND CM

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded polyethylene.
- Color Code: See Chart #13.

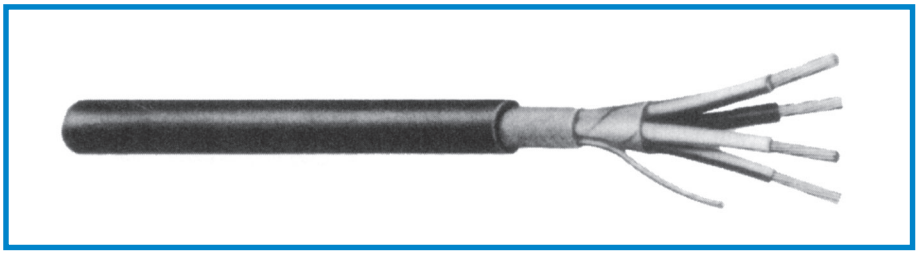
Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Solid tinned copper drain wire, 68% tinned copper braid.

Jacket:
- PVC, black.
- Temperature Range: -20 C to +80 C.
- Voltage Rating: 300 volts.

Applications:
- Computers.
- Industrial equipment.
- Data transmission.

Industry Approvals:
- NEC Article 800 Type CM/MP.
- UL Style 2919 (UL: 80°C, 30V).
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-1 Flame Test.
- CSA PCC (CSA, 60°C).

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL INSUL.	NOMINAL O.D.	NOM. CAP. (pF/ft)		DCR (Ω/M)		NOM. IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES	A	B	C	D			LBS/MFT
8549	22	2	Solid	0.018	0.032	15.5	27.5	17.2	5.0	100	66	44

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

C - Conductor Resistance.

D - Shield Resistance.

LISTED TYPE CM

LISTED TYPE CM/MP

FT1 Certified
Canadian Standard Association

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

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MULTI-PAIRED FOIL SHIELD
80°C 30 VOLT UL 2919 NEC TYPE CL2 AND CM

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded polypropylene.
- Color Code: See Chart #13.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

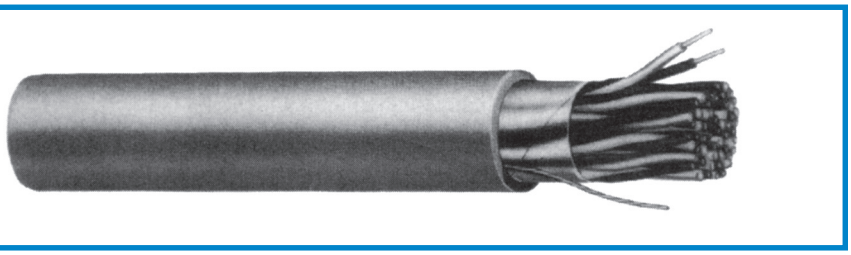
Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 30 volts (UL).

Applications:
- High speed computer interconnects.
- Data transmission.
- Low capacitance, extended distance computer applications.

Features:
- Excellent high frequency properties.
- Mechanical durability.
- Superior circuit isolation.
- Foil braid shield aids system designer to meet FCC Docket 20780 demands.

Industry Approvals:
- NEC Article 800 Type CM.
- NEC Article 725 Type CL2.
- UL Style 2919.
- Passes UL 70,000 BTU Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOM. CAP. (pF/ft)		DCR (Ω/M)		NOM. IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	A	B	C	D			LBS/MFT
6590	24	3	7/32	0.018	0.040	0.285	15.5	27.5	24	15.5	100	66	40
6591	24	4	7/32	0.018	0.040	0.290	15.5	27.5	24	14.5	100	66	47
6592	24	6	7/32	0.018	0.040	0.350	15.5	27.5	24	13.8	100	66	61
6593	24	9	7/32	0.018	0.040	0.424	15.5	27.5	24	12.7	100	66	78
6594	24	12½	7/32	0.018	0.040	0.467	15.5	27.5	24	11.8	100	66	107

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

C - Conductor Resistance.

D - Shield Resistance.

Q

UL® Listed Subject 13 NEC Article 725

UL® Listed Subject 444 NEC Article 800

Passes UL 70,000 BTU Flame Test

Custom Cable Corp.

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COMPUTER CABLE

MULTI-PAIRED INDIVIDUALLY FOIL SHIELDED 80°C 30 VOLT UL 2919 NEC TYPE CM, CSA PCC

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded polypropylene. Color code: See Chart #9.

Shield:
- Individually shielded pairs. 100% Aluminum/polyester, 25% overlap, foil facing in.
- Stranded tinned copper drain wire each pair.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 30 volts (UL).

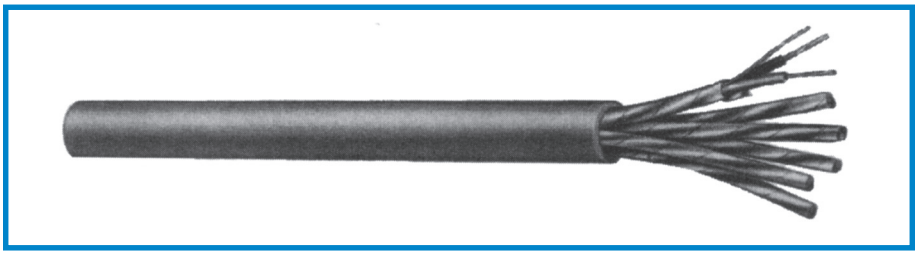
Applications:
- Applications for total isolation of signal.
- Computers.
- Control circuits.
- Industrial equipment.

Equipment Interfaces:
- SWEDA 625 systems.
- SWEDA 800 systems.

Features:
- Individually shielded pairs for excellent isolation.
- Excellent high frequency properties.
- Mechanical durability.

Industry Approvals:
- NEC Article 800 Type CM.
- UL Style 2919.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-1 Flame Test.

Packaging:
- 500 ft., 1000 ft, or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOM. CAP. (pF/ft)		DCR (Ω/M)		NOM. IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	A	B	C	D			LBS/MFT
6603	22	3	7/30	0.011	0.032	0.292	30	55	15	11.3	63	66	53
6606	22	6	7/30	0.011	0.032	0.381	30	55	15	11.3	63	66	87
6609	22	9	7/30	0.011	0.032	0.445	30	55	15	11.3	63	66	105
6611	22	11	7/30	0.011	0.032	0.486	30	55	15	11.3	63	66	124
6612	22	12	7/30	0.011	0.048	0.533	30	55	15	11.3	63	66	134
6615	22	15	7/30	0.011	0.048	0.591	30	55	15	11.3	63	66	172
6617	22	17	7/30	0.011	0.048	0.622	30	55	15	11.3	63	66	198
6619	22	19	7/30	0.011	0.048	0.622	30	55	15	11.3	63	66	217
6627*	22	27	7/30	0.011	0.048	0.696	30	55	15	11.3	63	66	346
6637*	22	37	7/30	0.011	0.048	0.862	30	55	15	11.3	63	66	496
6703	20	3	7/28	0.013	0.032	0.339	30	55	10.5	11.3	61	66	57
6706	20	6	7/28	0.013	0.032	0.446	30	55	10.5	11.3	61	66	101
6709	20	9	7/28	0.013	0.048	0.555	30	55	10.5	11.3	61	66	148
6712	20	12	7/28	0.013	0.048	0.623	30	55	10.5	11.3	61	66	188
6715	20	15	7/28	0.013	0.048	0.692	30	55	10.5	11.3	61	66	253
6803	18	3	16/30	0.016	0.032	0.395	30	55	6.4	8.3	60	66	79
6806	18	6	16/30	0.016	0.048	0.556	30	55	6.4	8.3	60	66	166
6809	18	9	16/30	0.016	0.048	0.649	30	55	6.4	8.3	60	66	232
6812	18	12	16/30	0.016	0.048	0.731	30	55	6.4	8.3	60	66	312
6815	18	15	16/30	0.016	0.048	0.766	30	55	6.4	8.3	60	66	373

* NEC Type CL2 only.

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

LISTED TYPE CM

Passes UL Vertical Tray Flame Test
Underwriters Laboratories Inc.

FT-1 Certified
Canadian Standard Association

Recognized Component
Underwriters Laboratories Inc.

Custom Cable Corp.

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MULTI-PAIRED INDIVIDUALLY FOIL SHIELDED 80°C 300 VOLT UL 2464 CSA FT-4 NEC TYPE CL2 AND CM/MP

Construction

Conductor:
- Fully annealed solid tinned copper per ASTM B-33.
- Twisted pairs.

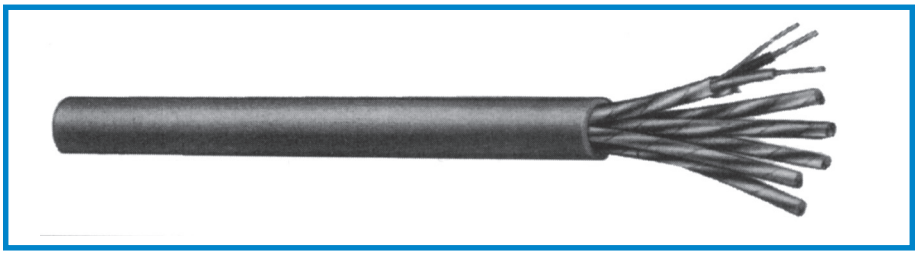
Insulation:
- Color coded PVC.
- Color Code: See Chart #9.

Shield:
- Individually shielded pairs.
- 100% Aluminum/polyester, 25% overlap, foil facing in.
- Stranded tinned copper drain wire each pair.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +80°C.
- Voltage Rating: 300 volts.

Industry Approvals:
- NEC Article 725 Type CL2.
- NEC Article 800 Type CM/MP.
- UL Style 2464.
- Passes UL 70,000 BTU Vertical Flame Test.
- Passes CSA FT-4 Flame Test.
- OSHA acceptable.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOM. CAP. (pF/ft)		DCR (Ω/M)		NOM. IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	A	B	C	D			LBS/MFT
6503	22	3	Solid	0.015	0.041	0.309	38	68	16.5	11.3	60	45	52
6506	22	6	Solid	0.015	0.041	0.374	38	68	16.5	11.3	60	45	83
6509	22	9	Solid	0.015	0.041	0.438	38	68	16.5	11.3	60	45	119
6511	22	11	Solid	0.015	0.041	0.474	38	68	16.5	11.3	60	45	160
6515	22	15	Solid	0.015	0.041	0.539	38	68	16.5	11.3	60	45	191

A - Conductor to conductor.

B - 1 conductor and other conductors connected to shield.

Q

COMPUTER CABLE

MULTI-PAIRED INDIVIDUALLY FOIL SHIELDED
60°C 300 VOLT UL 2493 LOW CAPACITANCE NEC TYPE CM - CSA PCC

Q

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Foamed Low Capacitance polypropylene.
- Color Code: See Chart #9.

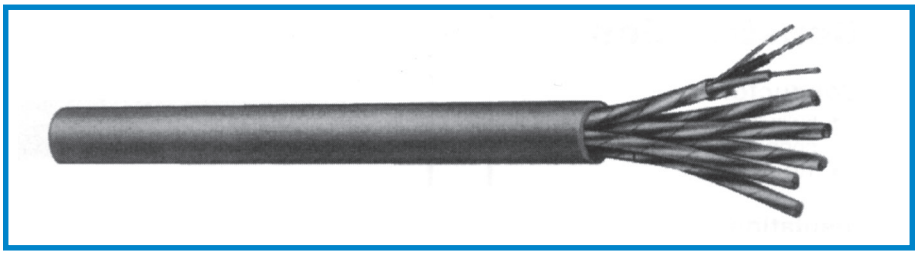
Shield:
- Individually shielded pairs. 100% aluminum/polyester, 25% overlap, foil facing in.
- Stranded tinned copper drain wire each pair.

Jacket:
- PVC, chrome gray.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 30 volts (UL).

Applications:
- High speed computers.
- Industrial equipment.
- Control circuits.
- Suitable for low capacitance applications. Suitable for EIA RS-422 CAD/CAM applications.

Industry Approvals:
- UL Style 2493 (UL 60°C, 300V).
- Passes UL 70,000 BTU Vertical Flame Test, CSA FT1 Flame Test.
- NEC NRT 800 CM (UL: 75°C, 300V).
- CSA PCC (CSA: 60°C).

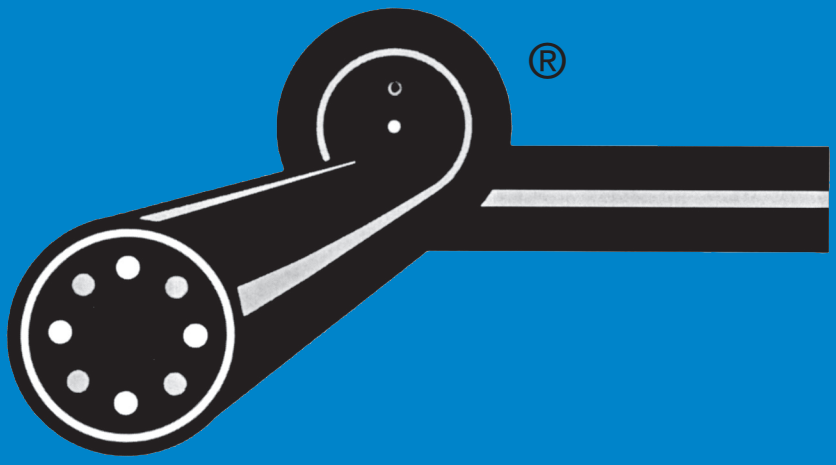
Packaging
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft) A	NOM. CAP. (pF/ft) B	DCR (Ω/M) COND.	DCR (Ω/M) SHIELD	NOMINAL WEIGHT LBS/MFT
6402	24	2	7/32	0.022	0.048	0.361	12.5	23.2	24	18	45
6403	24	3	7/32	0.022	0.048	0.381	12.5	23.2	24	18	48
6404	24	4	7/32	0.022	0.048	0.416	12.5	23.2	24	18	62
6406	24	6	7/32	0.022	0.048	0.492	12.5	23.2	24	18	83
6409	24	9	7/32	0.022	0.060	0.601	12.5	23.2	24	18	117
6411	24	11	7/32	0.022	0.060	0.652	12.5	23.2	24	18	130
6412	24	12	7/32	0.022	0.060	0.672	12.5	23.2	24	18	139
6415	24	15	7/32	0.022	0.060	0.743	12.5	23.2	24	18	167
6417	24	17	7/32	0.022	0.060	0.749	12.5	23.2	24	18	225
6419	24	19	7/32	0.022	0.060	0.756	12.5	23.2	24	18	241
6427	24	27	7/32	0.022	0.082	0.975	12.5	23.2	24	18	304

A - Conductor to conductor.
B - 1 conductor and other conductors connected to shield.

COAXIAL/TWINAXIAL CABLE



R

COAXIAL CABLE

CATV, MATV AND COMPUTER APPLICATIONS

Construction

Applications:

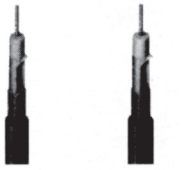
- Suitable for RF signal transmission.
- MATV.
- CATV.
- Local area network.
- Drop cable.
- FM broadcast.

Packaging:

- 1000 ft spools.

306A

306B



306C, 306D, 306Q, 306F

CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
306A RG6/U	21 AWG Solid Bare Copperweld	Solid Polyethylene 0.185	85% Double Bare Copper Braid	Black PVC 0.332	20.5	66	75	50 100 200 500 900	2.0 2.9 4.3 6.2 8.4	84
306B RG6/U NEC Type CL2	18 AWG Solid Bare Copper	Cellular Polyethylene 0.180	100% Alum. Mylar Plus #30 Drain Wires	Black PVC 0.270	18.6	78	75	50 100 200 500 900	1.5 2.1 3.1 5.0 6.9	28
306C RG6/U NEC Type CL2 CATV	18 AWG Solid Bare Copper	Cellular Polyethylene 0.180	100% Alum. Mylar Plus 55% Alum. Braid	Black PVC 0.270	18.6	78	75	50 100 200 500 900	1.5 2.1 3.1 5.0 6.9	38
306D RG6/U NEC Type CL2 CATV	18 AWG Solid Bare Copper	Cellular Polyethylene 0.180	100% Alum. Mylar Plus 61% Tinned Copper Braid	Black PVC 0.270	18.6	78	75	50 100 200 500 900	1.5 2.1 3.1 5.0 6.9	30
306Q RG6/U NEC Type CL2 CATV	18 AWG Solid Bare Copper Clad Steel 31.0Ω/M	Cellular Polyethylene 0.180	100% Alum. Mylar Plus 55% Alum. Braid	Black PVC 0.308	17.3	78	75	50 100 200 500 1000	1.56 2.12 3.00 4.80 6.84	44
306F RG6 Direct Burial Flooded	18 AWG Solid Copperweld	Foam Polyethylene 0.180	100% Alum. Mylar Plus 60% Alum. Braid	Black Polyethylene 0.272	16.0	82	75	200 400 700 900 1000	2.83 4.05 5.60 6.23 6.59	28

Custom Cable Corp.

Passes UL 70,000 BTU Flame Test

Recognized Component
Underwriters Laboratories Inc.

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www.customwireandcable.com • email: sales@customwireandcable.com

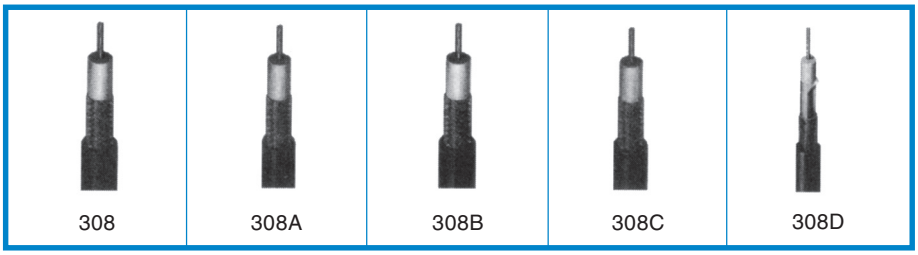
Construction

Applications:

- Suitable for RF signal transmission.
- MATV.
- CATV.
- Local area network.
- Broadcast.
- Amateur radio.

Packaging:

- 1000 ft spools.



308 | 308A | 308B | 308C | 308D

CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
308 RG8/U JAN-C-17A	13 AWG (7/21) Bare Copper	Solid Polyethylene 0.285	95% Bare Copper Braid	Black PVC 0.405	30.47	66	50	50 100 200 400 900	1.3 2.1 3.1 5.0 7.8	108
308A RG8 A/U UL Style 1354	13 AWG (7/21) Bare Copper	Solid Polyethylene 0.285	97% Bare Copper Braid	Black Non- Contaminating PVC 0.405	30.47	66	50	50 100 200 400 700 900	1.6 2.2 3.2 4.7 6.9 8.0	108
308B RG8/U	11 AWG (7/19) Bare Copper	Cellular Polyethylene 0.285	93% Bare Copper Braid	Black Polyethylene 0.405	26.7	78	50	50 100 200 400	1.1 1.7 2.4 3.9	100
308C RG8/U	11 AWG (19/24) Bare Copper	Cellular Polyethylene 0.285	95% Bare Copper Braid	Black PVC 0.405	26.7	78	50	50 100 200 400	1.2 1.8 2.6 3.8	99
308D RG8/U	9.5 AWG Solid Bare Copper	Semi-solid Polyethylene 0.285	100% Bonded Foil +88% Tin Copper Braid	Black PVC 0.405	24.8	84	50	50 100 200 400 700 900	0.9 1.4 1.8 2.6 3.6 4.2	98

R

UL® Recognized Component
Underwriters Laboratories Inc.

OSHA Acceptable
Occupational Safety and Health Administration

COAXIAL CABLE

MATV APPLICATIONS

Construction

Applications:
- Suitable for RF signal transmission.
- MATV.

Packaging:
- 1000 ft spools.


311


311A


311B


311C

CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
311 RG11 A/U	18 AWG (7/26) Tinned Copper	Solid Polyethylene 0.285	95% Bare Copper Braid	Black PVC 0.405	20.9	66	75	50 100 200 400 1000	1.5 2.1 3.2 4.7 8.0	100
311A RG11 A/U	18 AWG (7/26) Tinned Copper	Solid Polyethylene 0.285	95% Bare Copper Braid	Black Non-Contaminating PVC 0.405	20.9	66	75	50 100 200 400 700 900	1.3 2.0 2.9 4.2 5.8 6.8	95
311B RG11/U	14 AWG Solid Bare Copper	Cellular Polyethylene 0.285	95% Bare Copper Braid	Black Polyethylene 0.405	18.4	78	75	50 100 200 500 900	1.0 1.5 2.2 3.7 5.2	88
311C RG11/U Triaxial	14 AWG Solid Bare Copper	Cellular Polyethylene 0.285	95% Double Bare Copper Braid	Black Polyethylene 0.475	17.3	78	75	50 100 200 400	1.0 1.5 2.2 3.3	127

Construction

Applications:
- Suitable for RF signal transmission.
- Broadcast.

Packaging:
- 1000 ft spools


358


358A


358B


358C

CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
358 RG58/U NEC Type CL2 UL Style 1354	20 AWG (19/32) Tinned Copper	Cellular Polyethylene 0.116	95% Tinned Copper Braid	Black PVC 0.195	25.3	78	50	50 100 200 400 900	3.7 4.8 6.9 10.0 15.5	26
358A RG58 A/U Jan-C 17A	20 AWG (19/.0072) Tinned Copper	Solid Polyethylene 0.116	95% Tinned Copper Braid	Black PVC 0.195	31.7	66	50	50 100 200 400 900	4.1 5.3 8.2 12.6 20.0	28
358B RG58/U Jan-C-17A	20 AWG Solid Bare Copper	Solid Polyethylene 0.116	95% Tinned Copper Braid	Black PVC 0.195	29.6	66	50	50 100 200 400 900	3.0 4.5 6.2 9.5 14.5	28
358C RG58 C/U	20 AWG (19/.0072) Tinned Copper	Solid Polyethylene 0.116	95% Tinned Copper Braid	Black Non- Contaminating PVC 0.195	31.7	66	50	50 100 200 400 900	4.1 5.3 8.2 12.6 20.1	26

R

COAXIAL CABLE

CATV, MATV, AND COMPUTER APPLICATIONS

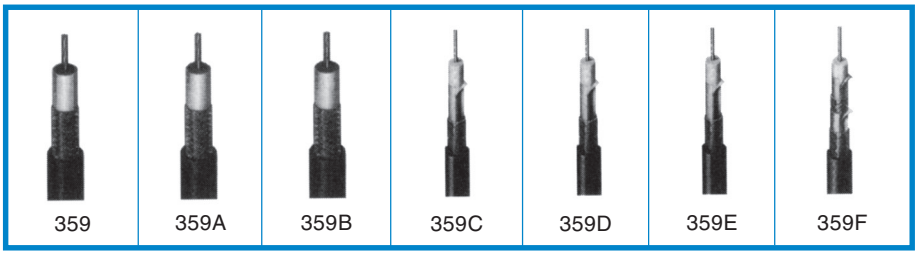
Construction

Applications:

- Suitable for RF signal transmission.
- MATV.
- Local area network.
- Citizen band radio.
- Cathode ray tube (CRT).

Packaging:

- 1000 ft spools.



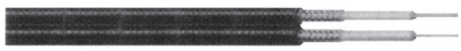
CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
359 RG59/U UL Style 1354	22 AWG Solid Bare Copperweld	Solid Polyethylene 0.144	95% Bare Copper Braid	Black PVC 0.242	20.5	66	73	50 100 200 500 900	2.4 3.4 4.9 9.1 13.9	41
359A RG59/U NEC Type CL2 & CATV AWM 1354	22 AWG Solid Bare Copperweld	Cellular Polyethylene 0.144	95% Bare Copper Braid	Black PVC 0.242	16.3	78	80	50 100 200 500 900	2.1 2.9 4.1 6.6 8.8	37
359B RG59B/U MIL-C-17D	23 AWG Solid Bare Copperweld	Solid Polyethylene 0.144	95% Bare Copper Braid	Black Non-Contaminating PVC 0.242	20.7	66	75	50 100 200 500 900	2.4 3.4 4.9 9.1 13.9	36
359C RG59/U NEC Type CL2 CATV UL Style 1354	22 AWG Solid Bare Copperweld	Cellular Polyethylene 0.144	100% Alum. Mylar Plus 40% Alum. Braid	Black PVC 0.238	16.0	78	80	50 100 200 500 900	1.9 2.7 4.0 6.5 9.0	25
359D RG59/U NEC Type CL2 CATV UL Style 1354	20 AWG Solid Bare Copperweld	Cellular Polyethylene 0.146	100% Alum. Mylar Plus 40% Alum. Braid	Black PVC 0.242	18.4	78	75	50 100 200 500 900	1.8 2.6 3.8 6.2 8.6	25
359E RG59/U NEC Type CL2 CATV UL Style 1354	20 AWG Solid Bare Copperweld	Cellular Polyethylene 0.146	100% Alum. Mylar Plus 67% Alum. Braid	Black PVC 0.242	18.4	78	75	50 100 200 500 900	1.8 2.6 3.8 6.2 8.4	26
359F RG59/U NEC Type CL2	20 AWG Solid Bare Copperweld	Cellular Polyethylene 0.146	(2) 100% Alum. Mylar Plus (2) 40% Alum. Braid	Black PVC 0.242	18.4	78	75	50 100 200 500 900	1.8 2.6 3.8 6.2 8.4	30

CATV, MATV, AND COMPUTER APPLICATIONS

Construction

Applications:
- Suitable for RF signal transmission.
- MATV.
- Local area network.
- Citizen band radio.
- Cathode ray tube (CRT).

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	INSULATION CORE INCHES	SHIELD COVERAGE	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION MHz	NOMINAL ATTENUATION DB/100 FT	NOMINAL WEIGHT LBS/MFT
8547 RG59/U Dual NEC Type CL2 UL Style 20063	23 AWG Solid Bare Copperweld	Solid Polyethylene 0.144	100% Alum. Mylar Over Each Dielectric Plus 85% Tinned Copper Braid	Black PVC 0.242 x 0.485	20.5	66	75	100 200 500 1000	3.40 4.90 7.75 12.00	100

UL®

Certified
Canadian Standard Association

COMPUTER APPLICATIONS

Construction

Applications:
- Suitable for RF signal transmission.
- Computer.

Packaging:
- 1000 ft spools.

362

362B

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	INSULATION CORE INCHES	SHIELD COVERAGE	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION MHz	NOMINAL ATTENUATION DB/100 FT	NOMINAL WEIGHT LBS/MFT
362 RG62/U NEC Type CL2 UL Style 1354	22 AWG Solid Bare Copperweld	Semi-Solid Polyethylene 0.146	95% Bare Copper Braid	Black PVC 0.242	13.5	84	93	100 200 400 900	2.7 3.8 5.4 8.3	34
362B RG62/U NEC Type CL2 UL Style 1354	22 AWG Solid Bare Copperweld	Semi-Solid Polyethylene 0.146	95% Bare Copper Braid	Black PVC 0.260	13.5	84	93	100 200 400 900	2.7 3.8 5.4 8.3	42

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OSHA Acceptable
Occupational Safety and Health Administration

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COAXIAL CABLE

MINIATURE AND BROADCAST APPLICATIONS

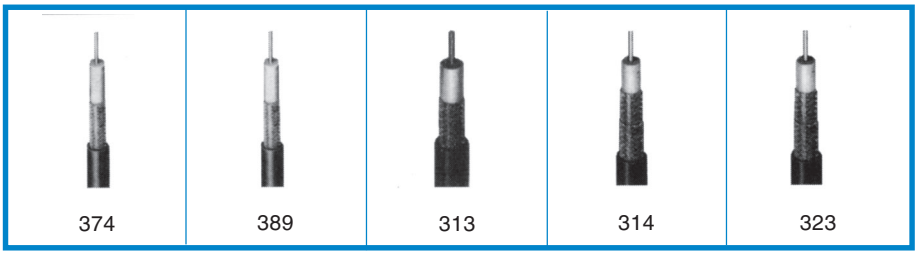
Construction

Applications:

- Suitable for RF signal transmission.
- MATV.
- CATV.
- Closed circuit TV.

Packaging:

- 1000 ft spools.



374 389 313 314 323

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	INSULATION CORE INCHES	SHIELD COVERAGE	NOMINAL O.D. INCHES	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION MHz	NOMINAL ATTENUATION DB/100 FT	NOMINAL WEIGHT LBS/MFT
374 RG174/U UL Style 1354	26 AWG (7/34) Bare Copperweld	Solid Polyethylene 0.060	95% Tinned Copper Braid	Black PVC 0.100	30.8	66	50	50 100 200 400	6.5 8.8 13.0 20.0	8
389 Miniature UL Style 1354	27 AWG (7/35) Bare Copperweld	Solid Polyethylene 0.100	93% Bare Copper Braid	Black PVC 0.150	20.5	66	75	50 100 200 400 700 900	4.2 5.7 8.3 12.1 16.5 19.0	14
313 RG213/U UL Style 1354	13 AWG (7/21) Bare Copper	Solid Polyethylene 0.285	95% Bare Copper Braid	Black Non- Contaminating PVC 0.405	30.8	66	50	50 100 200 400 600 1000	1.4 2.1 3.1 5.0 6.5 8.8	108
314 RG214/U MIL-C-17F QPL	(7/0.0296) 0.089 Silver Coated Copper	Polyethylene 0.285	(2) Silver Coated Copper 98% Shield Coverage	0.425	30.8	78	50	1 10 50 100 200 400 700 900 1000 4000	0.2 0.6 1.5 2.1 3.0 4.8 6.5 7.6 8.2 20.0	133
323 RG223/U MIL-C-17F QPL	19 AWG (Solid) 0.035 Silver Coated Copper	Polyethylene 0.116	(2) Silver Coated Copper 97% Shield Coverage	0.212	30.8	66	50	1 10 50 100 200 400 700 900 1000	0.4 1.2 2.8 4.1 6.0 8.8 12.0 13.8 14.5	37

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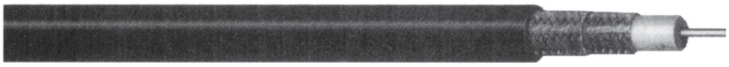
COAXIAL CABLE

75 OHM VIDEO

Construction

Applications:
- Broadcast.
- Video.

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
375	20 AWG Solid Bare Copper	Solid Polyethylene 0.198	98% Double Tinned Copper Braid	Gray Non-Contaminating PVC 0.304	21	66	75	0.01 0.1 1 4.5 10 100	0.06 0.08 0.25 0.45 0.78 2.70	74

R

LOCAL AREA NETWORK COAXIAL CABLE

60°C 30 VOLT UL 1354 NEC TYPE CL2

Construction

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33.

Dielectric:
- Cellular high density polyethylene.

Shield:
- 100% Aluminum/polyester, "bonded" at overlay.
- 77% tinned copper braid.

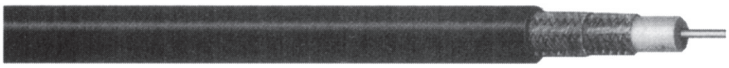
Jacket:
- PVC, clear.
- Temperature Range: -20°C to +60°C.
- Voltage Rating: 30 volts (UL).

Applications:
- Coaxial cable for local area networks.

Equipment Interfaces:
- DEC systems.

Industry Approvals:
- NEC Article 725 Type CL2.
- UL Style 1364.
- Passes UL 70,000 BTU Vertical Flame Test.
- OSHA acceptable.

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE	NO. OF COND'S	STRAND	NOMINAL CORE O.D.	NOMINAL O.D.	NOMINAL IMP. (Ω)	VEL. OF PROP. (%)	NOMINAL CAP. pF/ft	NOMINAL WEIGHT
	AWG/MCM			INCHES	INCHES			A	LBS/MFT
8016	20	1	19/.0074	0.102	0.182	50	80	25.40	22

Passes UL 70,000 BTU Flame Test

Passes UL VW-1 Flame Test — **Passes UL-VW-1 Flame Test**
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TWINAXIAL CABLE

Construction

Applications:
- Broadcast.
- Computer.

Packaging:
- 1000 ft spools.


8541


8542


8544

CUSTOM CATALOG NUMBER	SIZE	INSULATION CORE	SHIELD COVERAGE	NOMINAL O.D.	NOM. CAP. (pF/ft)	VEL. OF PROP. (%)	NOM. IMP. (Ω)	NOMINAL ATTENUATION		NOMINAL WEIGHT
	AWG/MCM	INCHES		INCHES				MHz	DB/100 FT	LBS/MFT
8541 UL 2582 150V 60°C	20 AWG (7/28) Tinned Copper	Solid Polyethylene Clear/Blue 0.022	100% Alum. +57% Tinned Copper Braid	Blue PVC 0.242	19.7	66	78	1 10 50 100 200 400	0.6 2.1 5.0 7.5 11.0 16.0	38
8542 RG 22 B/U	18 AWG (7/0.0152) 1 Tinned 1 Bare	Solid Polyethylene 0.285	96% Double Tinned Copper Braid	Black Non- Contaminating PVC 0.420	16	66	95	1 10 20 50 100 200 400	0.3 0.9 1.3 2.1 3.0 4.5 6.3	127
8544 UL 2498 300V 80°C	20 AWG (7/28) 1 Tinned 1 Bare	Solid Polyethylene 0.022	100% Alum. Mylar +90% Tinned Copper Braid	Black PVC 0.330	15.5	66	100	1 10 50 100 200 400	0.4 1.1 2.5 4.1 6.4 10.2	69

NEC ARTICLE 725-2(b) CLASS 2 CIRCUITS COAXIAL CABLE/LAN

Construction

Conductor:
- Fully annealed solid bare copper per ASTM B-3, stranded tinned copper per ASTM B-33 or copperweld.

Insulation:
- Solid or foamed Fluorocopolymer.

Shield:
- Bare or tinned copper braid with or without an aluminum foil shield.

Jacket:
- Flexguard® or Fluorocopolymer, natural color.

Applications:
- Suitable for RF signal transmission.
- Communication and signal applications.
- Video Display Terminals (VDT).
- CCTV and MATV Installations.
- Remote control signaling.
- Programmable controllers.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Excellent electrical and mechanical properties.
- Low smoke producing.

Industry Approvals:
- UL listed for low smoke and fire characteristics.
- UL Subject 13, Power Limited Circuit Cable, Type CL2P.
- UL Subject 910, Smoke and Flame Test.
- OSHA acceptable.
- NEC Article 725-2(b).

Packaging:
- 1000 ft spools.

BC - Bare Copper
TC - Tinned Copper
BCW - Bare Copperweld

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	DIELECTRIC TYPE	SHIELD TYPE	NOMINAL O.D. INCHES	IMPED-ANCE OHMS	VEL. OF PROP. (%)	CAPAC-ITANCE (pF/ft)	NOMINAL ATTENUATION MHz	NOMINAL ATTENUATION dB/100 Ft.	NOMINAL WEIGHT LBS/MFT
11500 RG62/U	22 Solid BCW	Foamed Fluoroco-polymer	95% BC Shield	0.195	93	84	13.5	10 50 100 200 400	0.85 1.90 2.70 3.80 5.30	50
11520 DUAL RG59 B/U	23 Solid BCW	Fluoroco-polymer	95% TC Shield	0.230 x 0.435	75	69.5	21.0	10 50 100 200 400	0.98 2.24 3.22 4.65 6.78	112
11530 RG59/U	20 Solid BCW	Foamed Fluoroco-polymer	95% BC Shield	0.195	75	82	16.0	10 50 100 200 400	0.97 2.21 3.18 4.60 6.72	29
11540 RG58/U	19 Solid BC	Fluoroco-polymer	95% TC Shield	0.161	53.5	82	25.0	100 200	3.90 6.00	23
11550 RG6/U	18 Solid BC	Foamed Fluoroco-polymer	100% Foil Plus 95% TC Shield	0.235	75	82	16.0	10 50 100 400	1.30 2.19 4.18 9.50	43
11561 RG6/U QUAD SHIELD	18	Foamed Fluoroco-polymer	Alum. Mylar 60% Alum. Braid 2nd Alum. Mylar 2nd 40% Alum. Braid	.273	75	82	16.5	50 100 200 400	1.50 2.70 2.45 4.60	57
11565 RG11/U TYPE PLENUM CATV	14	Foamed Fluoroco-polymer	Alum. Mylar and 61% Timed Copper Braid	.348	75	80	16.7	50 100 200 400	1.20 1.70 2.20 3.30	81
11567 RG58C/U TYPE PLENUM IEEE 802.3 (10 BASE 2)	20	Foamed Fluoroco-polymer	Alum. Mylar and 95% Tinned Copper Braid	.171	50	80	25.4	50 100 200 400	2.90 3.80 4.10 6.00	29
11569 RG59/U QUAD SHIELD PLENUM	20	Foamed Fluoroco-polymer	(2) Alum. Foil Shield & (1) 60% Alum. Braid (1) 40% Alum. Braid	240	75	82	16.5	50 100 200 400	1.90 2.60 3.90 5.20	47
11580 THIN NET RG58/U	20 (19/32) TC	Foamed Fluoroco-polymer	100% Foil Plus 95% TC Shield	0.160	50	82	27.0	10 20 50 100	1.30 1.83 2.19 4.18	25

R

UL® LISTED Type CL2P

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

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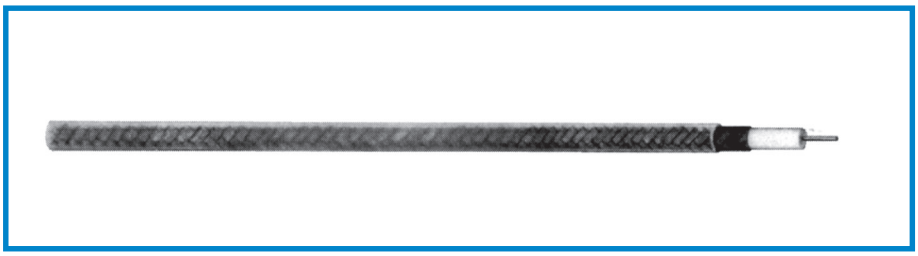
PLENUM COAXIAL CABLE

HIGH TEMPERATURE MIL-C-17

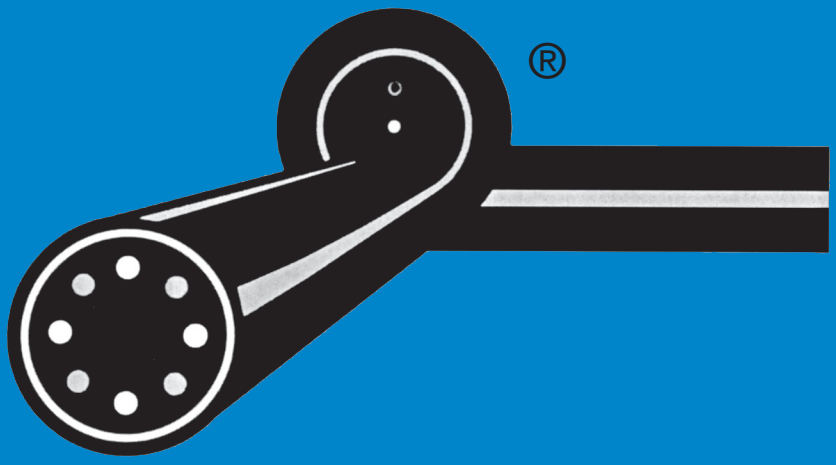


CUSTOM CATALOG NUMBER	M17 NUMBER	CENTER CONDUCTOR (INCHES)	INSULATION THICKNESS (INCHES)	SHIELD	JACKET	OVERALL DIAMETER (INCHES)	WEIGHT LBS/MFT	IMPEDANCE (OHMS)	CAPACITANCE (PF/FT)	WORKING VOLTAGE (VOLTS RMS)
290	M17/60 RG142	.037 SCCS	.116 PTFE	SPC(2)	FEP	.195	43	50+/-2	29.4	1400
278B	M17/93 RG178	.0120 (7/.004) SCCS	.033 PTFE	SPC	FEP	.071	6	50+/-2	29.4	750
279B	M17/94 RG179	.0120 (7/.004) SCCS	.063 PTFE	SPC	FEP	.100	11	75+/-3	19.4	900
280B	M17/95 RG180	.0120 (7/.004) SCCS	.102 PTFE	SPC	FEP	.141	20	95+/-5	16.4	1100
296	M17/110 RG302	.0253 SCCS	.146 PTFE	SPS	FEP	.202	40	75+/-3	19.4	1700
297	M17/111 RG303	.037 SCCS	.116 PTFE	SPC	FEP	.170	31	50+/-2	29.4	1400
216	M17/113 RG316	.0201 (7/.0067) SCCS	.060 PTFE	SPC	FEP	.098	12	50+/-2	29.4	900
291	M17/127 RG393	.094 (7/.0312) SC	.285 PTFE	SPC(2)	FEP	.390	165	50+/-2	29.4	1875
292	M17/128 RG400	.0384 (19/.008) SC	.116 PTFE	SPC(2)	FEP	.195	50	50+/-2	29.4	1400
293	M17/152 00001	.0201 (7/.0067) SCCS	.060 PTFE	SPC(2)	FEP	.114	19	50+/-2	29.4	900
298	M17/169 00001	.0120 (7/.004) SCCS	.033 PTFE	SPC	FEP	.071	6	50+/-2	29.4	750
295	M17/172 00001	.0201 (7/.0067) SCCS	.060 PTFE	SPC	FEP	.098	12	50+/-2	29.4	900
294	M17/176 00002	.0235 (19/.005) SPA(2)	.042 PTFE	SPA	PFA	.129	18	77+/-7	19.0	750
287	RG187 A/U	.0120 (7/.004) SCCS	.063 PTFE	SPC	PTFE	.100	9	75+/-3	19.4	900
288	RG188 A/U	.0201 (7/.0067) SCCS	.060 PTFE	SPC	PTFE	.100	12	50+/-2	29.4	900

- Packaging: 1000 ft spools
- (+ or -) Standard Tolerance

NOTE: SCCS = Silver Copperclad Steel
SC = Silver Copper
SPA = Silver Plated Alloy
SCP = Silver Plated Copper

INSTRUMENTATION CABLE



S

INSTRUMENTATION CABLE

300 VOLT - 105°C - PAIRS - UNSHIELDED & OVERALL SHIELDED - TYPE PLTC

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC.

Shield (where applicable):
- Alum/polyester shield.

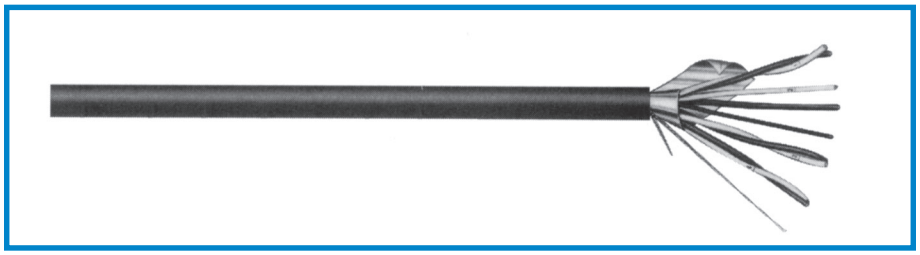
Drain Wires (where applicable):
- (#20 AWG - #22),
  (#18 AWG - #20),
  (#16 AWG - #18),
  (#14 AWG - #16).

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black & White plus each conductor is numbered.

Application:
- Process Instrumentation - Power Limited Tray Cable (PLTC).
- Class 1 Division 2 hazardous areas per NEC Article 725.
- Overall shield (where applicable) plus twisting of pairs provide superior electrostatic and electromagnetic interference rejection.
- Chemical and abrasion resistant jacket.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
SINGLE PAIR UNSHIELDED PLTC							
4401	20	1	7	0.016	0.035	0.210	24
4431	18	1	7	0.016	0.035	0.240	29
4461	16	1	7	0.016	0.035	0.260	37
SINGLE PAIR SHIELDED PLTC							
4400	20	1	7	0.016	0.035	0.220	25
4430	18	1	7	0.016	0.035	0.250	31
4460	16	1	7	0.016	0.035	0.270	42
4490	14	1	7	0.021	0.040	0.312	70
MULTI PAIRS SHIELDED (OVERALL) PLTC							
4402	20	2	7	0.016	0.045	0.320	58
4404	20	4	7	0.016	0.055	0.420	87
4406	20	6	7	0.016	0.055	0.450	112
4408	20	8	7	0.016	0.055	0.515	134
4410	20	10	7	0.016	0.055	0.580	160
4412	20	12	7	0.016	0.055	0.600	183
4414	20	16	7	0.016	0.066	0.700	246
4416	20	20	7	0.016	0.066	0.725	280
4418	20	24	7	0.016	0.066	0.810	339
4420	20	36	7	0.016	0.078	0.950	489
4425	20	50	7	0.016	0.078	1.100	645
4432	18	2	7	0.016	0.045	0.380	75
4434	18	4	7	0.016	0.055	0.480	108
4436	18	6	7	0.016	0.055	0.525	145
4438	18	8	7	0.016	0.055	0.580	173
4440	18	10	7	0.016	0.066	0.660	230
4442	18	12	7	0.016	0.066	0.680	264
4444	18	16	7	0.016	0.066	0.760	330
4446	18	20	7	0.016	0.066	0.840	400
4448	18	24	7	0.016	0.078	0.940	462
4450	18	36	7	0.016	0.078	1.070	671
4455	18	50	7	0.016	0.078	1.300	895
4462	16	2	7	0.016	0.055	0.440	86
4464	16	4	7	0.016	0.055	0.510	141
4466	16	6	7	0.016	0.055	0.570	190
4468	16	8	7	0.016	0.066	0.666	242
4470	16	10	7	0.016	0.066	0.740	290
4472	16	12	7	0.016	0.066	0.770	358
4474	16	16	7	0.016	0.066	0.850	455
4476	16	20	7	0.016	0.078	0.950	555
4478	16	24	7	0.016	0.078	1.050	665
4480	16	36	7	0.016	0.078	1.230	942
4485	16	50	7	0.016	0.078	1.440	1294

NOTE: Thermosetting Construction Available Upon Special Request.

Custom Cable Corp.

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300 VOLT - 105°C - PAIRS - INDIVIDUAL & OVERALL SHIELD (SPOS)

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC.

Indiv. Shield:
- Aluminum/polyester tape.

Drain Wire:
- 7 str. tinned Cu (#20 AWG - #22), (#18 AWG - #20), (#16 AWG - #18).

Tape:
- Polyester.

Comm. Wire:
- #22 AWG 7 str bare copper insulated with 0.015" orange PVC.

Overall Shield:
- Aluminum/polyester tape.

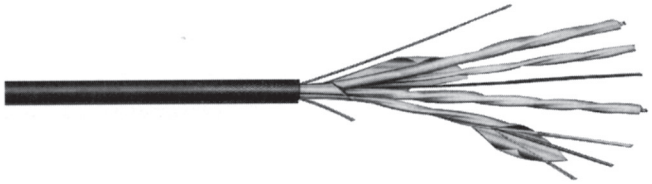
Drain Wire:
- 7 str tinned copper.

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black and White plus each conductor is numbered.

Application:
- Process instrumentation Power Limited Tray Cable (PLTC).
- Class 1 Division 2 hazardous areas per NEC Article 725.
- Advantages: Individual shielding and twisting of pairs plus overall shield provide maximum electrostatic and electromagnetic interference rejection.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
3802	20	2	7	0.016	0.045	0.360	70
3804	20	4	7	0.016	0.055	0.455	102
3808	20	8	7	0.016	0.055	0.575	165
3810	20	10	7	0.016	0.066	0.685	220
3812	20	12	7	0.016	0.066	0.710	250
3814	20	16	7	0.016	0.066	0.775	310
3816	20	20	7	0.016	0.066	0.950	375
3818	20	24	7	0.016	0.078	0.970	450
3820	20	36	7	0.016	0.078	1.100	620
3825	20	50	7	0.016	0.078	1.280	820
3832	18	2	7	0.016	0.055	0.450	80
3834	18	4	7	0.016	0.055	0.510	130
3838	18	8	7	0.016	0.055	0.690	230
3840	18	10	7	0.016	0.066	0.760	280
3842	18	12	7	0.016	0.066	0.840	330
3844	18	16	7	0.016	0.066	0.940	420
3846	18	20	7	0.016	0.078	1.010	520
3848	18	24	7	0.016	0.078	1.120	620
3850	18	36	7	0.016	0.078	1.260	850
3855	18	50	7	0.016	0.089	1.470	1170
3862	16	2	7	0.016	0.055	0.480	105
3864	16	4	7	0.016	0.055	0.550	175
3868	16	8	7	0.016	0.066	0.760	320
3870	16	10	7	0.016	0.066	0.830	380
3872	16	12	7	0.016	0.078	0.910	450
3874	16	16	7	0.016	0.078	1.020	595
3876	16	20	7	0.016	0.078	1.100	725
3878	16	24	7	0.016	0.078	1.220	860
3880	16	36	7	0.016	0.089	1.410	1230
3885	16	50	7	0.016	0.089	1.600	1625

NOTE: Thermosetting Construction Available Upon Special Request.

S

INSTRUMENTATION CABLE

300 VOLT - 105°C - TRIADS - UNSHIELDED & OVERALL SHIELDED

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC.

Shield (where applicable):
- Alum/polyester shield.

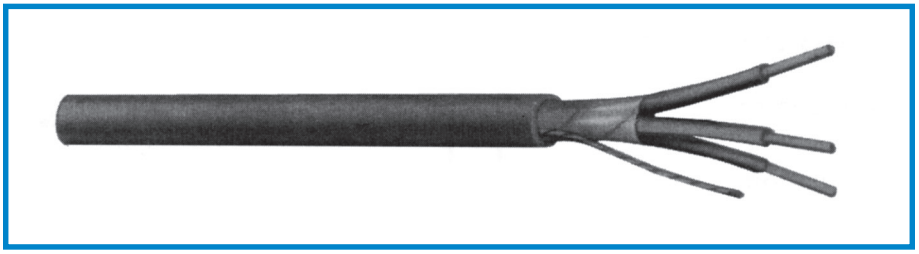
Drain Wires (where applicable):
- (#20 AWG - #22),
  (#18 AWG - #20),
  (#16 AWG - #18),
  (#14 AWG - #16).

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black, White & Red plus each conductor is numbered.

Application:
- Process Instrumentation Power Limited Tray Cable (PLTC).
- Class 1 Division 2 hazardous areas per NEC Article 725.
- Overall shield (where applicable) plus twisting of triads provide superior electrostatic and electromagnetic interference rejection.
- Chemical and abrasion resistant jacket.



CUSTOM CATALOG NUMBER	SIZE	NO. OF TRIADS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
SINGLE TRIAD - UNSHIELDED PLTC							
4501	20	1	7	0.016	0.035	0.220	28
4531	18	1	7	0.016	0.035	0.250	36
4561	16	1	7	0.016	0.035	0.275	48
SINGLE TRIAD - SHIELDED PLTC							
4500	20	1	7	0.016	0.035	0.230	32
4530	18	1	7	0.016	0.035	0.260	40
4560	16	1	7	0.016	0.035	0.285	58
4590	14	1	7	0.021	0.040	0.330	85
MULTI TRIADS - SHIELDED (OVERALL) PLTC							
4502	20	2	7	0.016	0.055	0.390	72
4504	20	4	7	0.016	0.055	0.470	112
4508	20	8	7	0.016	0.055	0.610	200
4512	20	12	7	0.016	0.066	0.740	277
4514	20	16	7	0.016	0.066	0.820	346
4518	20	24	7	0.016	0.078	1.020	612
4520	20	36	7	0.016	0.078	1.170	706
4532	18	2	7	0.016	0.055	0.480	90
4534	18	4	7	0.016	0.055	0.530	145
4538	18	8	7	0.016	0.066	0.730	220
4542	18	12	7	0.016	0.066	0.860	372
4544	18	16	7	0.016	0.078	0.980	446
4548	18	24	7	0.016	0.078	1.180	595
4550	18	36	7	0.016	0.089	1.380	992
4562	16	2	7	0.016	0.055	0.530	120
4564	16	4	7	0.016	0.055	0.590	195
4568	16	8	7	0.016	0.066	0.800	350
4572	16	12	7	0.016	0.078	0.970	520
4574	16	16	7	0.016	0.078	1.080	672
4578	16	24	7	0.016	0.089	1.380	900
4580	16	36	7	0.016	0.089	1.550	1373

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300 VOLT - 105°C - TRIADS - INDIVIDUAL & OVERALL SHIELD (STOS)

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC.

Indiv. Shield:
- Aluminum/polyester tape.

Drain Wire:
- 7 str. tinned Cu (#20 AWG - #22), (#18 AWG - #20), (#16 AWG - #18).

Tape:
- Polyester.

Comm. Wire:
- #22 AWG 7 str bare copper insulated with 0.015" orange PVC.

Overall Shield:
- Aluminum/polyester tape.

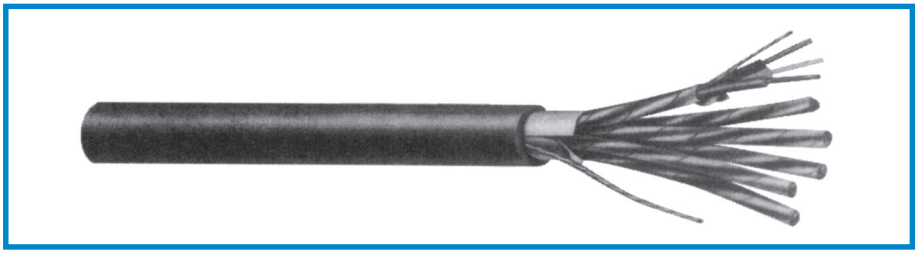
Drain Wire:
- 7 str. tinned copper.

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black, White & Red plus each conductor is numbered.

Application:
- Process instrumentation Power Limited Tray Cable (PLTC).
- Class 1 Division 2 hazardous areas per NEC Article 725.
- Advantages: Individual shielding and twisting of triads plus overall shield provide maximum electrostatic and electromagnetic interference rejection.



CUSTOM CATALOG NUMBER	SIZE	NO. OF TRIADS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
3902	20	2	7	0.016	0.055	0.400	100
3904	20	4	7	0.016	0.055	0.480	130
3908	20	8	7	0.016	0.055	0.620	210
3912	20	12	7	0.016	0.066	0.770	320
3914	20	16	7	0.016	0.066	0.860	400
3918	20	24	7	0.016	0.078	1.050	650
3920	20	36	7	0.016	0.078	1.210	825
3932	18	2	7	0.016	0.055	0.490	105
3934	18	4	7	0.016	0.055	0.540	165
3938	18	8	7	0.016	0.066	0.740	285
3942	18	12	7	0.016	0.066	0.930	435
3944	18	16	7	0.016	0.078	1.020	560
3948	18	24	7	0.016	0.078	1.230	680
3950	18	36	7	0.016	0.089	1.390	1170
3962	16	2	7	0.016	0.055	0.535	130
3964	16	4	7	0.016	0.055	0.610	230
3968	16	8	7	0.016	0.066	0.840	430
3972	16	12	7	0.016	0.078	1.040	610
3974	16	16	7	0.016	0.078	1.160	810
3978	16	24	7	0.016	0.089	1.400	1210
3980	16	36	7	0.016	0.089	1.580	1635

NOTE: Thermosetting Construction Available Upon Special Request.

S

INSTRUMENTATION CABLE

600 VOLT - 90°C - PAIRS - UNSHIELDED & OVERALL SHIELDED - TYPE TC

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC plus 0.004" nylon.

Comm. Wire:
- #18 AWG 7 str bare copper insulated with 0.015" orange PVC.

Shield (where applicable):
- Aluminum-polyester tape.

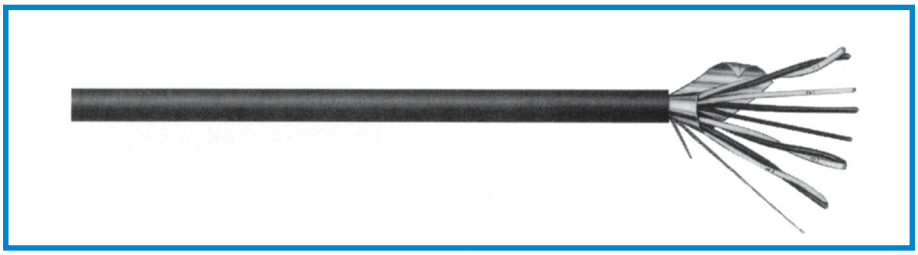
Drain Wire (where applicable):
- 7 str tinned Copper.

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black and White plus each conductor is numbered.

Application:
- Process Instrumentation - Tray Cable.
- Advantages: Overall shield (where applicable) plus twisting of pairs and triads provide superior ESI & EMI rejection.
- Chemical and abrasion resistant jacket.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
SINGLE PAIR UNSHIELDED							
4601	18	1	7	0.016	0.050	0.277	26
4631	16	1	7	0.016	0.050	0.295	31
4661	14	1	7	0.016	0.050	0.325	56
SINGLE PAIR SHIELDED							
4600	18	1	7	0.016	0.050	0.280	27
4630	16	1	7	0.016	0.050	0.305	34
4660	14	1	7	0.016	0.050	0.335	74
MULTI PAIRS SHIELDED (OVERALL)							
4602	18	2	7	0.016	0.055	0.430	83
4604	18	4	7	0.016	0.055	0.480	118
4608	18	8	7	0.016	0.066	0.630	190
4610	18	10	7	0.016	0.066	0.710	253
4612	18	12	7	0.016	0.066	0.750	290
4614	18	16	7	0.016	0.066	0.830	363
4616	18	20	7	0.016	0.089	0.960	440
4618	18	24	7	0.016	0.089	1.010	508
4620	18	36	7	0.016	0.089	1.200	738
4625	18	50	7	0.016	0.089	1.420	984
4632	16	2	7	0.016	0.055	0.465	95
4634	16	4	7	0.016	0.055	0.525	155
4638	16	8	7	0.016	0.066	0.725	266
4640	16	10	7	0.016	0.066	0.790	319
4642	16	12	7	0.016	0.089	0.870	393
4644	16	16	7	0.016	0.089	0.950	500
4646	16	20	7	0.016	0.089	0.900	610
4648	16	24	7	0.016	0.089	1.100	731
4650	16	36	7	0.016	0.089	1.300	1030
4655	16	50	7	0.016	0.089	1.550	1420
4662	14	2	7	0.021	0.055	0.560	120
4664	14	4	7	0.021	0.066	0.600	255
4668	14	8	7	0.021	0.066	0.770	430
4670	14	10	7	0.021	0.089	0.940	598
4672	14	12	7	0.021	0.089	0.980	660
4674	14	16	7	0.021	0.089	1.080	833
4676	14	20	7	0.021	0.089	1.190	1.025
4678	14	24	7	0.021	0.089	1.320	1.248
4680	14	36	7	0.021	0.089	1.520	1670
4685	14	50	7	0.021	0.121	1.860	2420

NOTE: Thermosetting Construction Available Upon Special Request.

S

600 VOLT - 90°C - PAIRS - INDIVIDUAL & OVERALL SHIELD (SPOS)

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC plus 0.004" nylon.

Indiv. Shield:
- Aluminum/polyester tape.

Drain Wire:
- 7 str. tinned Cu (#18 AWG - #20), (#16 AWG - #18), (#14 AWG - #16).

Tape:
- Polyester.

Comm. Wire:
- #18 AWG 7 str. bare copper insulated with 0.015" orange PVC.

Overall Shield:
- Aluminum/polyester tape.

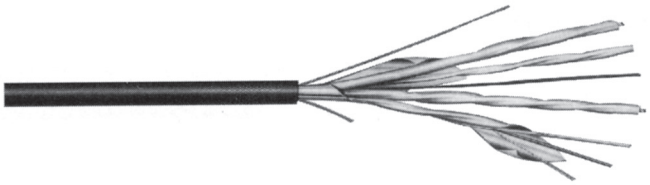
Drain Wire:
- 7 str. tinned copper.

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black and White plus each conductor is numbered.

Application:
- Process instrumentation requiring multi-pairs or triads - Tray cable.
- Advantages: Individual shielding and twisting pairs and triads plus overall shield provides maximum electrostatic and electromagnetic interference rejection.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
4802	18	2	7	0.016	0.055	0.470	87
4804	18	4	7	0.016	0.055	0.520	140
4808	18	8	7	0.016	0.066	0.720	248
4810	18	10	7	0.016	0.066	0.790	305
4812	18	12	7	0.016	0.066	0.840	360
4814	18	16	7	0.016	0.089	0.960	454
4816	18	20	7	0.016	0.089	1.050	560
4818	18	24	7	0.016	0.089	1.200	670
4820	18	36	7	0.016	0.089	1.400	918
4825	18	50	7	0.016	0.089	1.590	1264
4832	16	2	7	0.016	0.055	0.505	114
4834	16	4	7	0.016	0.066	0.580	189
4838	16	8	7	0.016	0.066	0.790	346
4840	16	10	7	0.016	0.089	0.910	410
4842	16	12	7	0.016	0.089	0.960	486
4844	16	16	7	0.016	0.089	1.050	643
4846	16	20	7	0.016	0.089	1.170	785
4848	16	24	7	0.016	0.089	1.320	930
4850	16	36	7	0.016	0.089	1.500	1328
4855	16	50	7	0.016	0.089	1.800	1755
4862	14	2	7	0.021	0.055	0.560	191
4864	14	4	7	0.021	0.066	0.650	306
4868	14	8	7	0.021	0.089	0.880	572
4870	14	10	7	0.021	0.089	1.030	719
4872	14	12	7	0.021	0.089	1.065	864
4874	14	16	7	0.021	0.089	1.190	1088
4876	14	20	7	0.021	0.089	1.320	1271
4878	14	24	7	0.021	0.089	1.500	1513
4880	14	36	7	0.021	0.089	1.680	2146
4885	14	50	7	0.021	0.121	2.030	3112

NOTE: Thermosetting Construction Available Upon Special Request.

S

UL® LISTED

UL® Listed Subject 13 NEC Article 725

Passes IEEE 383 210,000 BTU Flame Test

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INSTRUMENTATION CABLE

600 VOLT - 90°C - TRIADS - UNSHIELDED & OVERALL SHIELDED

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC plus 0.004" nylon.

Comm. Wire:
- #18 AWG 7 str. bare copper insulated with 0.015" orange PVC.

Shield: (Where Applicable)
- Aluminum/polyester tape.

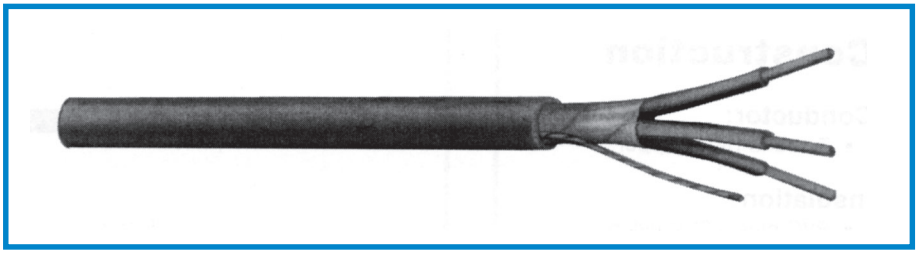
Drain Wire: (Where Applicable)
- 7 str. tinned Copper.

Rip cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black, White & Red plus each conductors numbered.

Application:
- Process Instrumentation - Tray Cable.
- Advantages: Overall shield plus twisting of triads provide superior ESI & EMI rejection.
- Chemical and abrasion resistant jacket.



CUSTOM CATALOG NUMBER	SIZE	NO. OF TRIADS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
SINGLE TRIAD UNSHIELDED							
4701	18	1	7	0.016	0.050	0.291	30
4731	16	1	7	0.016	0.050	0.311	39
4761	14	1	7	0.016	0.050	0.341	80
SINGLE TRIAD SHIELDED							
4700	18	1	7	0.016	0.050	0.300	35
4730	16	1	7	0.016	0.050	0.325	44
4760	14	1	7	0.016	0.050	0.350	83
MULTI TRIADS SHIELDED (OVERALL)							
4704	18	4	7	0.016	0.055	0.525	157
4708	18	8	7	0.016	0.055	0.650	345
4712	18	12	7	0.016	0.089	0.990	401
4714	18	16	7	0.016	0.089	1.080	482
4718	18	24	7	0.016	0.089	1.350	642
4720	18	36	7	0.016	0.089	1.530	1071
4734	16	4	7	0.016	0.066	0.680	211
4738	16	8	7	0.016	0.066	0.730	345
4742	16	12	7	0.016	0.089	1.100	562
4744	16	16	7	0.016	0.089	1.210	726
4748	16	24	7	0.016	0.089	1.500	970
4750	16	36	7	0.016	0.121	1.790	1482
4764	14	4	7	0.021	0.066	0.750	368
4772	14	12	7	0.021	0.089	1.240	986
4774	14	16	7	0.021	0.089	1.380	1242
4778	14	24	7	0.021	0.121	1.770	1942

NOTE: Thermosetting Construction Available Upon Special Request.

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600 VOLT - 90°C - TRIADS - INDIVIDUAL & OVERALL SHIELD (STOS)

Construction

Conductor:
- 7 strand bare copper.

Insulation:
- PVC plus 0.004" nylon.

Indiv. Shield:
- Aluminum/polyester tape.

Drain Wire:
- 7 str. tinned Cu (#18 AWG - #20), (#16 AWG - #18), (#14 AWG - #16).

Tape:
- Polyester.

Comm. Wire:
- #18 AWG 7 str bare copper insulated with 0.015" orange PVC.

Overall Shield:
- Aluminum/polyester tape.

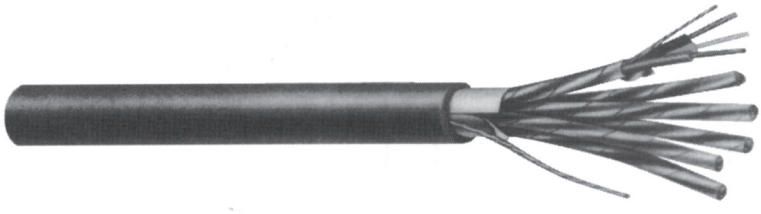
Drain Wire:
- 7 str. tinned copper.

Rip Cord:
- Nylon.

Jacket:
- PVC.

Color Code:
- Black, White & Red plus each conductor is numbered.

Application:
- Process instrumentation requiring multi-pairs or triads - Tray cable.
- Advantages: Individual shielding and twisting pairs and triads plus overall shield provides maximum electrostatic and electromagnetic interference rejection.



CUSTOM CATALOG NUMBER	SIZE	NO. OF TRIADS	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
4904	18	4	7	0.016	0.066	0.610	152
4912	18	12	7	0.016	0.089	1.020	390
4914	18	16	7	0.016	0.089	1.120	490
4918	18	24	7	0.016	0.089	1.400	725
4920	18	36	7	0.016	0.089	1.560	991
4934	16	4	7	0.016	0.066	0.690	204
4942	16	12	7	0.016	0.089	1.120	525
4944	16	16	7	0.016	0.089	1.230	695
4948	16	24	7	0.016	0.089	1.510	1010
4950	16	36	7	0.016	0.121	1.790	1435
4964	14	4	7	0.021	0.066	0.750	382
4972	14	12	7	0.021	0.089	1.250	1092
4974	14	16	7	0.021	0.089	1.385	1424
4978	14	24	7	0.021	0.121	1.775	2205
4980	14	36	7	0.021	0.121	2.030	3172

NOTE: Thermosetting Construction Available Upon Special Request.

S

UL® LISTED
UL® Listed Subject 13 NEC Article 725
Passes IEEE 383 210,000 BTU Flame Test

INSTRUMENTATION CABLE

600 VOLT - 90°C - FREP - CPE - OVERALL SHIELD & EACH PAIR/ OR EACH TRIAD SHIELDED PLUS OVERALL SHIELD (SPOS OR STOS) - TYPE TC

Construction

Conductor:
- Tinned annealed copper.

Insulation:
- Color coded, flame-retardant ethylene propylene rubber (EPR) - VW1.

Color Code (Per ICEA Method 1):
- Pairs - Black & White and numbered.
- Triads - Black, White, Red and numbered.
- Aluminum/mylar with tinned copper drain wire.

Cable Core:
- Conductor components are cabled with non-hygroscopic, flame-retardant fillers as necessary and an overall binder tape.

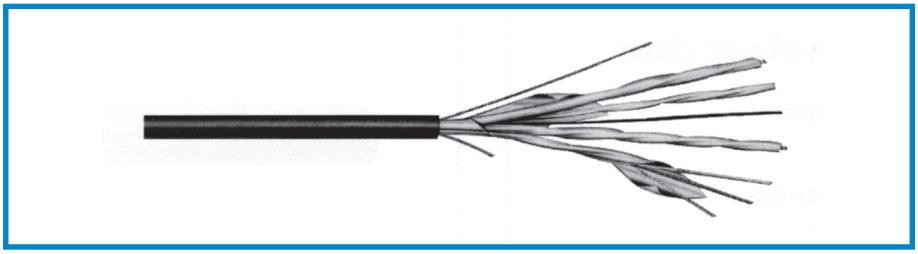
Overall Jacket:
- Flame-retardant chlorinated polyethylene (CPE).

Temperature Rating:
- (UL) 90°C Dry; 75°C Wet.
- ICEA 90°C Dry or Wet.

Advantages:
- Excellent electrical, thermal, flame and physical properties.
- Excellent moisture resistance.
- Excellent resistance to crushing.
- Excellent low temperature cold bend characteristics.
- Excellent flame resistance - burns to an ash; does not exhibit "thermo plastic drip."
- (UL) oil resistant.

Approvals:
- (UL) Type TC.
- ICEA S-68-516.
- OSHA acceptable.
- Meet the following Flame Tests:
  - IEEE 383 (70,000 BTU/hr).
  - UL 1277 (70,000 BTU/hr).
  - ICEA T-29-520 (210,000 BTU/hr) vertical cable tray flame tests.

Applications:
- In free air, all raceways or direct burial.
- In wet or dry locations.
- At temperatures as low as -35°C.
- Permitted for use in Class 1 Division 2 industrial hazardous locations per NEC Article 501-4(b).



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	NOMINAL THICKNESS (INCHES) INSULATION	NOMINAL THICKNESS (INCHES) JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
OVERALL SHIELD						
44600	18	2 cond.	0.025	0.060	0.330	50
44700	18	3 cond.	0.025	0.060	0.350	60
44630	16	2 cond.	0.025	0.060	0.360	57
44730	16	3 cond.	0.025	0.060	0.400	67
44632	16	4 cond.	0.025	0.060	0.480	86
SHIELDED PAIRS PLUS OVERALL SHIELD (SPOS)						
44803	18	3	0.025	0.060	0.560	119
44804	18	4	0.025	0.060	0.586	152
44808	18	8	0.025	0.060	0.751	259
44812	18	12	0.025	0.080	0.948	398
44814	18	16	0.025	0.080	1.050	502
44816	18	20	0.025	0.080	1.140	603
44818	18	24	0.025	0.080	1.250	709
44820	18	36	0.025	0.080	1.470	1008
44832	16	2	0.025	0.045	0.516	103
44833	16	3	0.025	0.080	0.577	146
44834	16	4	0.025	0.060	0.637	189
44836	16	6	0.025	0.060	0.729	260
44837	16	7	0.025	0.080	0.775	295
44838	16	8	0.025	0.080	0.821	330
44840	16	10	0.025	0.080	0.931	418
44842	16	12	0.025	0.080	1.040	506
44844	16	16	0.025	0.080	1.150	643
44848	16	24	0.025	0.080	1.380	916
SHIELDED TRIADS PLUS OVERALL SHIELD (STOS)						
44934	16	4 triad	0.025	0.060	0.725	261
44936	16	6 triad	0.025	0.060	0.850	396
44938	16	8 triad	0.025	0.080	0.975	530
44942	16	12 triad	0.025	0.080	1.180	721

NOTE: Please consult factory for other pair or triad combinations. Also available with overall shield only.

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SHIELDED XLPE INSULATION - CPE JACKET TYPE TC 600 VOLT

Construction

Conductor:
- Awg size and stranding: 18 Awg (or) 16 Awg Class B stranding.
- Material: Soft drawn tinned or bare copper. **Must specify at time of order.**

Insulation:
- Material: FR-XLPE per UL 44, XLPE, VW-1.
- Wall thickness: .030" The minimum average shall not be less than 90% of the specified thickness.
- Conductor OD: .119+/-.002"

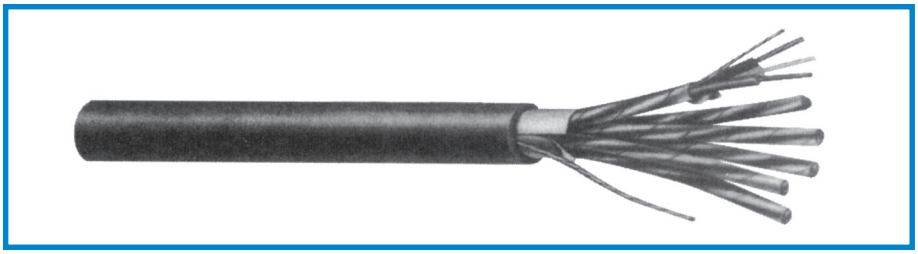
Color Code:
- Code: Per customer requirement. Most common black/white and numbered. (K-1) **Specify when ordering.**

Assembly:
- Filler: Only where necessary for a round cable construction.
- Binder: Where necessary for a tight cable core and ease of jacket stripping.
- Pair Shield: Aluminum polyester foil. 100% Coverage.
- Pair Drain: 22 Awg 7 strand tinned copper.
- Overall Shield: Aluminum polyester foil. 100% Coverage.
- Drain Wire: 22 Awg 7 strand tinned copper.

Jacket:
- Material: Thermo-plastic Chlorinated polyethylene (CPE) Jacket compound meets the requirements of Part 4 of ICEA S-73-532, Table 4-2 (CPE-TP), and the Sunlight resistant and Oil Resistant II requirements of UL Standard 1277.
- Wall thickness: The average jacket thickness shall be in accordance with UL standard 1277. The minimum thickness at any point shall be not less than 80% of the specified average thickness. (See Table I).
- Color: Black.

Surface Markings:
- Type: Cables shall be identified by means of surface ink jet.
- Legend: Type TC, (UL), 600V, No. Conductors, Size, XLP/CPE, Shielded (or not), Sun Res, Dir Bur, Per, Sequential Footage Marker, E#.

Standards:
- UL listed as type TC per standard 1277 for tray cables.
- Cables UL listed for direct burial.
- Individual conductors pass UL's VW-1 flame test.
- Individual conductors UL listed as XLPE.
- Overall jacket UL listed as sunlight resistant and oil resistant I and II.
- Cables pass UL 1202. IEEE 383, and ICEA T-29-520 210,000 BTU/Hour flame test.
- Cables meet requirements of ICEA S-73-532, NEMA WC57 for control cables.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	PR/TR COUNT	INSULATION THICKNESS	SHIELD TYPE	JACKET THICKNESS	NOMINAL O.D.
46000	18	1pr (or 2 Cond'r)	.030"	OAS	.045"	.304"
46002	18	3pr	.030"	SPOS	.045"	.471"
46003	18	4pr	.030"	SPOS	.060"	.580"
46004	18	6pr	.030"	SPOS	.060"	.691"
46005	18	8pr	.030"	SPOS	.060"	.750"
46006	18	9pr	.030"	SPOS	.060"	.809"
46007	18	12pr	.030"	SPOS	.080"	.951"
46008	18	18pr	.030"	SPOS	.080"	1.110"
46009	18	24pr	.030"	SPOS	.080"	1.263"
46500	16	1pr (or 2 Cond'r)	.030"	OAS	.045"	.330"
46501	16	2pr	.030"	SPOS	.045"	.517"
46502	16	3pr	.030"	SPOS	.045"	.582"
46503	16	4pr	.030"	SPOS	.060"	.635"
46504	16	6pr	.030"	SPOS	.060"	.760"
46505	16	8pr	.030"	SPOS	.060"	.825"
46506	16	9pr	.030"	SPOS	.060"	.931"
46507	16	12pr	.030"	SPOS	.080"	1.046"
46508	16	18pr	.030"	SPOS	.080"	1.224"
46509	16	19pr	.030"	SPOS	.080"	1.224"
46510	16	20pr	.030"	SPOS	.080"	1.261"
46511	16	24pr	.030"	SPOS	.080"	1.394"

18 Awg and 16 Awg multi-pair overall shielded (**OAS**) (or) shielded pairs and overall shielded control cable (**SPOS**). Tinned or bare copper conductor, XLPE insulated, CPE jacketed. Cables are manufactured in accordance with UL standard 1277 type TC. Suitable for use in Class I, II, Division 2 hazardous locations. Cables are approved for installation in cable tray per Article 336 of the NEC. Cables may be installed in open air, in ducts or conduits, in tray or trough, and suitable for direct burial. Sunlight resistant jacket. Oil resistant I and II per UL 1277, 600V 90 deg. C wet or dry. Passes 70,000 BTU Vertical tray flame test per UL 1277, 1202 and IEEE383.

All Measurements are nominal.

Capability Specification
The above material is made to order. We can make it either with an overall shield (OAS) or each pair plus overall shield (SPOS) construction. This material may be supplied in 300 or 600 volts. Construction can be either pairs or triads. Other types of jackets are available as well. **Customer must specify when ordering.**

SHIELDED ARMORED ELECTRONIC INSTRUMENT CABLE

MULTIPLE PAIRS (SERVED WIRE ARMOR) SHIELDED
MULTIPLE TRIADS (SERVED WIRE ARMOR) SHIELDED

Construction

Construction Specifications:
Multiple Shielded Pairs SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 2
- Color Code: Black and White.
- Group ID: Each pair numbered.
- Lay of Twist: 2"
- Pair Shield: 100% coverage 1.77 mils aluminum-Mylar* tape and 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 and 8 pair	50 mils
10, 12 and 16 pair	60 mils
24, 36 and 50 pair	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

Multiple Shielded Triads SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 3
- Color Code: Black, White and Red.
- Group ID: Each triad numbered.
- Lay of Twist: 2"
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 triples	50 mils
12 and 16 triples	60 mils
36 triples	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

*Available in other AWG sizes.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG	No. of Pairs	No. of Triads	Overall Diameter Nominal/ Maximum Inches	Minimum Bend Radius Inches	Maximum Pulling Tension lbs.	Net Weight lbs./mft.
SWA 3804	20	4		0.597/0.632	7-5/8	372	261.4
SWA 3808	20	8		0.690/0.727	8-3/4	558	342.1
SWA 3812	20	12		0.773/0.881	9-3/4	676	420.6
SWA 3816	20	16		0.925/0.986	11-7/8	769	618.8
SWA 3824	20	24		1.042/1.105	13-3/8	1127	769.6
SWA 3836	20	36		1.229/1.294	15-5/8	1426	1148.0
SWA 3904	20		4	0.665/0.701	8-1/2	438	311.3
SWA 3912	20		12	1.006/1.109	13-3/8	1008	689.6
SWA 3914	20		16	1.088/1.151	13-7/8	1168	798.7

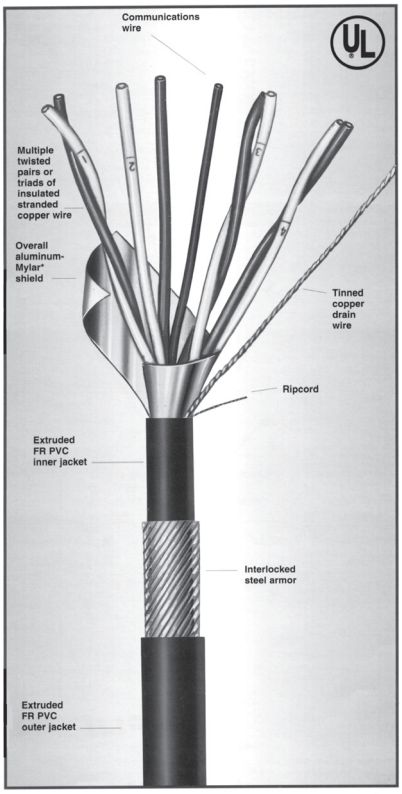
Application

This product is UL listed as power limited tray cable for cable tray installation in NEC Class I, Division 2 and Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops.

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

Also available in 600 Volt configuration.
Available in other AWG sizes.

*DuPont Trademark



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ARMORED ELECTRONIC INSTRUMENT WIRE

SHIELDED SINGLE PAIR (SERVED WIRE ARMOR)
SHIELDED SINGLE TRIAD (SERVED WIRE ARMOR)

Construction

Construction Specifications: Single Pair Shielded

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 2
- Color Code: Black and White.
- Lay of Twist: 2" nominal.
- Shield: 1.27 mils aluminum-Mylar* tape shield and an 18 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Single Triad Shielded

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 3
- Color Code: Black, White and Red.
- Lay of Twist: 2" nominal.
- Shield: 1.27 mils aluminum-Mylar* tape shield and an 18 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Application

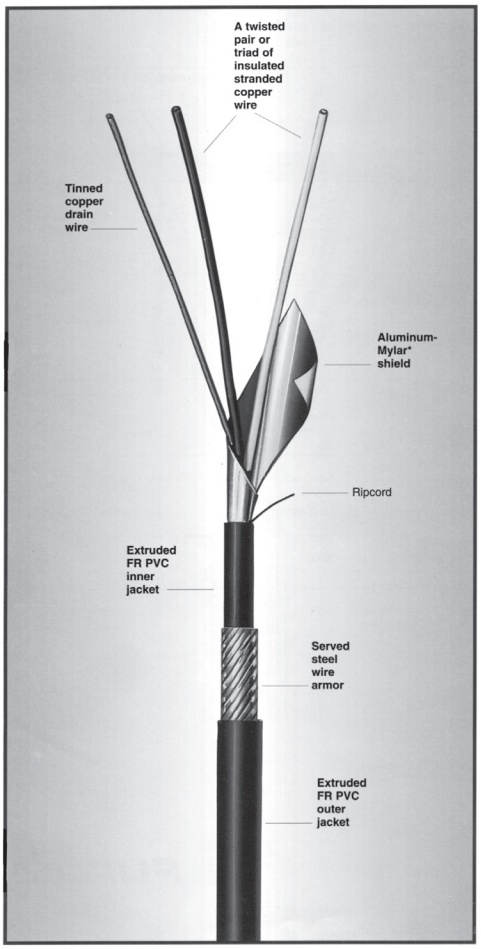
- This product is UL listed as power limited tray cable for cable tray installations in NEC Class I, Division 2 and with restrictions in Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut through resistance and is suited for vertical drops.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum INCHES	Minimum Bend Radius INCHES	Maximum Pulling Tension LBS.	NET WEIGHT LBS./MFT
SWA 4460	16	(1 pair)	.365/.413	5	158	117.0
SWA 4560	16	(1 triad)	.379/.428	5-1/4	164	133.0

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.
Also available in 600 Volt configuration.

* DuPont Trademark
** Product has 20 mil jacket and is not UL listed.
*** Also available in other AWG sizes.



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SHIELDED ARMORED ELECTRONIC INSTRUMENT CABLE

MULTIPLE PAIRS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)
MULTIPLE TRIADS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)

Construction

Construction Specifications: Multiple Shielded Pairs SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 2
- Color Code: Black and White.
- Group ID: Each pair numbered.
- Lay of Twist: 2”
- Pair Shield: 100% coverage 1.77 mils aluminum-Mylar* tape and 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 and 8 pair	50 mils
10, 12 and 16 pair	60 mils
24, 36 and 50 pair	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

Multiple Shielded Triads SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 3
- Color Code: Black, White and Red.
- Group ID: Each triad numbered.
- Lay of Twist: 2”
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 triples	50 mils
12 and 16 triples	60 mils
36 triples	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG	No. of Pairs	No. of Triads	Overall Diameter Nominal/ Maximum Inches	Minimum Bend Radius Inches	Maximum Pulling Tension lbs.	Net Weight lbs./mft.
SWA 4404	20	4		0.627/0.663	8	409	287.2
SWA 4408	20	8		0.740/0.778	9-3/8	645	388.2
SWA 4412	20	12		0.935/0.996	12	792	620.8
SWA 4416	20	16		1.006/1.069	12-7/8	1057	715.0
SWA 4424	20	24		1.245/1.311	15-3/4	1354	1111.9
SWA 4436	20	36		1.373/1.444	17-3/8	1610	1359.7
SWA 4504	20		4	0.682/0.718	8-5/8	474	331.5
SWA 4512	20		12	1.035/1.098	13-1/4	1090	742.6
SWA 4514	20		16	1.159/1.215	14-5/8	1271	997.7

Application

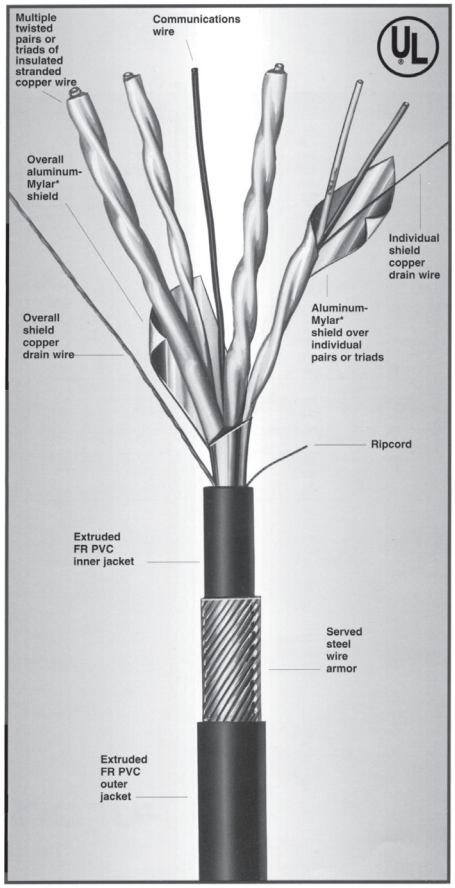
This product is UL listed as power limited tray cable for cable tray installation in NEC Class I, Division 2 and Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops.

The specifications listed above are subject to change without notice. In any change, the product’s performance will remain the same, or be improved.

* DuPont Trademark

** Also available in 600 Volt configuration.

*** Also available in other AWG sizes.



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ARMORED ELECTRONIC INSTRUMENT WIRE

SINGLE PAIR (SERVED WIRE ARMOR)
SINGLE TRIAD (SERVED WIRE ARMOR)

Construction

Construction Specifications: Single Pair SWA

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 2
- Color Code: Black and White.
- Lay of Twist: 2" nominal.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Single Triad SWA

- Conductor: **16 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 3
- Color Code: Black, White and Red.
- Lay of Twist: 2" nominal.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Application

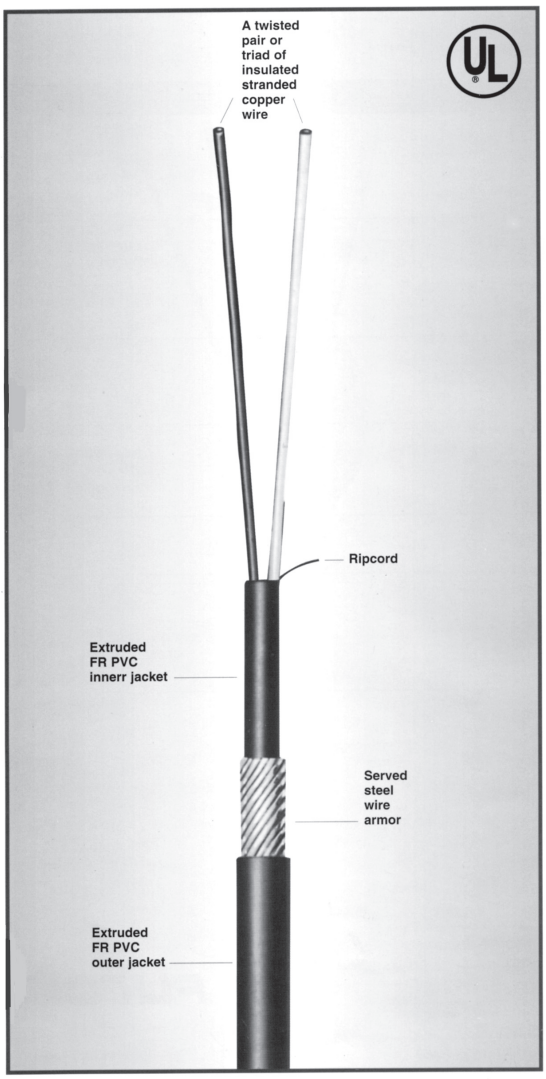
- This product is UL listed as power limited tray cable. Under NEC 725 with a 300 Volt rating, it can be installed in Class I, Division 2 and Class II, Division 2 hazardous areas. Some restrictions apply in Class II, Division 2 areas. The served wire armor offers cut-through resistance and is suited for vertical drops.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum	Minimum Bend Radius	Maximum Pulling Tension	NET WEIGHT
	AWG/MCM		INCHES	INCHES	LBS.	LBS./MFT
SWA 4461	16	(1 pair)	.367/.415	5	41	112.0
SWA 4561	16	(1 triad)	.381/.430	5-1/4	62	127.0

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

* Also available in 600 Volt configuration.
** Product has 20 mil jacket and is not UL listed.
*** Also available in other AWG sizes.



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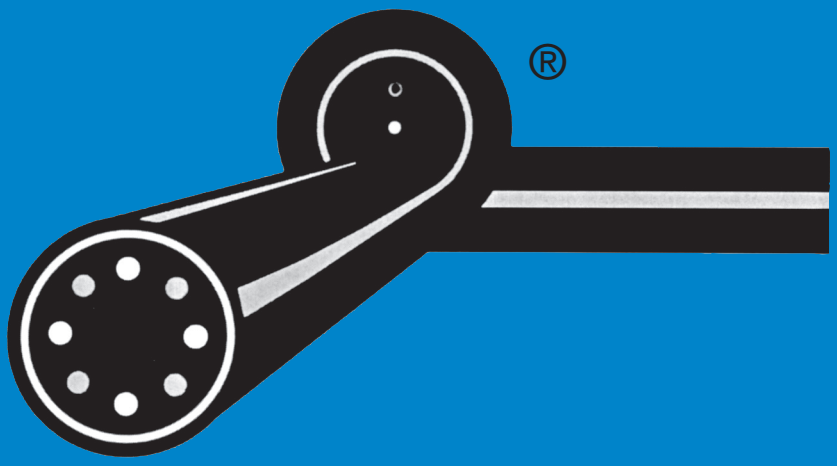
DATACOM AND TELEPHONE CABLE



T

TELEPHONE CABLE

TYPE BWFA - RUS SPEC PE-54, FILLED, DIRECT BURIAL - RUS (REA) DESINATIONS BWFA

Construction

Conductor:
- Solid soft drawn annealed copper.

Insulation:
- Polyolefin or solid virgin high density polyethylene with standard telephone industry color coding.

Cable Core Assembly:
- Individual conductors are twisted into pairs with varying lays to minimize crosstalk and meet strict capacitance unbalance limits. The entire cable assembly is completely flooded with a waterblocking compound, filling the air space between the insulated conductors.

Inner Jacket:
- Black low density, high molecular weight polyethylene serving as an additional lightning impulse barrier, offering mechanical strength to protect the core assembly should the outer jacket be damaged during installation.

Shielding:
- 0.008 inch corrugated aluminum with a corrosion-resistant blue tinted ethylene copolymer coating on both sides.

Outer Jacket:
- Black polyethylene, to withstand sunlight and temperature variations.

CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	INSULATION	JACKET THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INNER	OUTER	INCHES	LBS/MFT
8050	24	2	0.012	0.025	0.030	0.33	55
8051	24	3	0.012	0.025	0.030	0.33	58
8054	22	2	0.015	0.025	0.030	0.33	68
8055	22	3	0.015	0.025	0.030	0.33	71
8057	19	1	0.021	0.025	0.030	0.31	55
8058	19	2	0.021	0.025	0.030	0.40	100
8059	19	3	0.021	0.025	0.030	0.40	108

* Also available with gopher resistant 0.005 corrugated copper-clad stainless steel shield. Check sales office for prices and availability. Must specify when ordering.

NOTE: REA PE-86 supercedes PE-54.

TELEPHONE CABLE

TYPE BWFG-1 - RUS SPEC PE-86 - FILLED, DIRECT BURIAL DISTRIBUTION

T

Construction

Conductor:
- Solid annealed bare copper.

Insulation:
- Polyolefin.

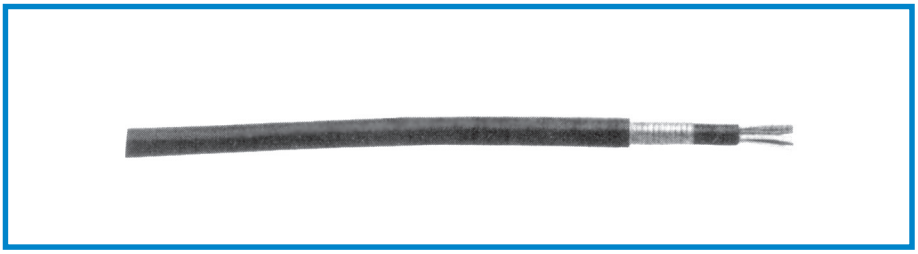
Cable Core Assembly:
- Individual conductors are twisted into pairs with varying lays to minimize crosstalk and with standard industry color coding to provide pair identification. The tip conductor is longitudinally striped with the color of its mate. The interstices between the pairs are filled with an 80°C filling compound.

Inner Jacket:
- Polyethylene.

Shielding:
- Electrically continuous 0.005 inch thick corrugated copper-clad or copper-steel alloy applied longitudinally with over-lapped edges.

Outer Jacket:
- Black polyethylene, water resistant.

Applications:
- Used to extend the cable plant in rural or sparsely populated areas. Also used as drop wires connecting subscriber to nearest terminal or pedestal.
- BWFG-1 shield is gopher resistant.



CUSTOM CATALOG NUMBER	SIZE	NO. OF PAIRS	INSULATION	JACKET THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INNER	OUTER	INCHES	LBS/MFT
8065	24	2	0.012	0.025	0.030	0.340	73
8066	24	3	0.012	0.025	0.030	0.340	76
8068	22	2	0.015	0.025	0.030	0.350	89
8069	22	3	0.015	0.025	0.030	0.350	91

NOTE: REA PE-86 Supercedes PE-54.

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TYPE CMX - INSIDE/OUTSIDE STATION WIRE

Construction

Conductor:
- Solid soft drawn annealed bare copper.

Insulation:
- High density polyethylene.

Jacket:
- Tough, flame retardant weather and abrasion resistant gray or beige polyvinyl chloride (PVC).
  (Please specify the desired jacket color when ordering.)

Advantages:
- Small diameter.
- Mechanical protection of an outer jacket.
- Low cost.
- Weather resistant.
- UL Listed. UL 444.
- UL KS CMX (Outdoor).

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	NOM. INSUL. THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	LBS/MFT
22745	24	4	0.010	0.132	15
22748	22	2	0.010	0.124	13
22749	22	3	0.010	0.135	17
22750	22	4	0.010	0.120	20

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	NOM. INSUL. THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	LBS/MFT
22755	22	2	0.010	0.12	11
22756	22	3	0.010	0.13	13
22757	22	4	0.010	0.14	16

The two and three conductor wire conductors are twisted together, forming a paired and triple assembly, respectively. The four conductor wire is made by twisting the four conductors together forming a star quad configuration. Conductors 1 (red) and 2 (green) are place diagonally across from each other to form pair one. The 3rd (yellow) and 4th (black) conductors form pair two.

For Conductors

Color Code

No. of Conductors	Color
2	Red/Green
3	Red/Green/Yellow
4	Red/Green/ Yellow/Black
5	Red/Green/ Yellow/Black/White

For Pairs

Color Code

No. of Pairs	Color
1	Blue/White
2	Orange/White
3	Green/White
4	Brown/White

T

UL® LISTED

TELEPHONE CABLE

TYPE CA - AERIAL & DUCT AIR CORE - RUS SPEC. PE-22

Construction

Conductor:
- Solid soft drawn annealed bare copper.

Insulation:
- Polyolefin or solid virgin high-density polyethylene, with standard telephone industry color-coding.

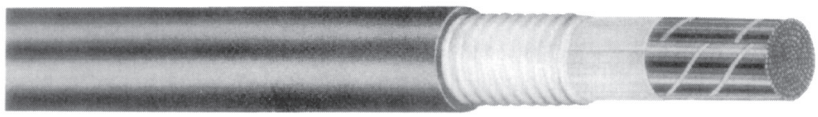
Cable Core Assembly:
- Insulated conductors are twisted into pairs with varying lays (twist lengths) to minimize crosstalk and meet strict capacitance unbalance limits. Cables containing over 25 pairs are cabled and assembled in sub-units, each identified by color coded unit binders.

Binding Tape:
- An overlapping high dielectric, non-hygroscopic binding tape is applied over the cable core for improved mechanical and electrical characteristics.

Shielding:
- A corrosion/oxidation resistant, blue tinted ethylene copolymer coated (on both sides) overlapping 0.008" thick corrugated aluminum tape shield is applied longitudinally overall to provide 100% electrical shielding coverage.

Jacket:
- A black low density high molecular weight virgin polyethylene. It is compounded to withstand sunlight, temperature variations, and other environmental conditions including abuse during installation.

Footage Marking:
- Footage markings are printed sequentially every two feet along the outer jacket to provide readily accurate records of cable usage and continuous-length reel contents.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
8400	24	6	0.008	0.060	0.380	74
8401	24	12	0.008	0.060	0.440	99
8402	24	18	0.008	0.060	0.480	124
8403	24	25	0.008	0.060	0.530	162
8404	24	50	0.008	0.060	0.680	260
8405	24	75	0.008	0.060	0.770	366
8406	24	100	0.008	0.060	0.860	456
8407	24	150	0.008	0.070	1.030	653
8408	24	200	0.008	0.070	1.160	860
8409	24	300	0.008	0.080	1.400	1265
8410	24	400	0.008	0.080	1.580	1640
8411	24	600	0.008	0.090	1.920	2530
8412	24	900	0.008	0.100	2.310	3769
8413	24	1200	0.008	0.110	2.630	4980
8414	24	1500	0.008	0.110	2.900	5918
8415	24	1800	0.008	0.110	3.140	7104
8416	24	2100	0.008	0.110	3.370	8034
8417	24	2400	0.008	0.110	3.580	10062
9375	22	6	0.010	0.060	0.400	92
9376	22	12	0.010	0.060	0.490	139
9377	22	18	0.010	0.060	0.560	182
9378	22	25	0.010	0.060	0.630	225
9379	22	50	0.010	0.060	0.800	384
9380	22	100	0.010	0.070	1.070	723
9395	22	150	0.010	0.070	1.280	1044
9396	22	200	0.010	0.080	1.450	1329
9397	22	300	0.010	0.090	1.740	1969
9398	22	400	0.010	0.090	1.990	2752
9399	22	600	0.010	0.100	2.420	3893
9392	22	900	0.010	0.110	2.880	5666
9393	22	1200	0.010	0.110	3.270	7402
9394	22	1500	0.010	0.110	3.610	9980
9381	19	6	0.014	0.060	0.520	142
9382	19	12	0.014	0.060	0.630	221
9383	19	18	0.014	0.060	0.730	292
9384	19	25	0.014	0.060	0.820	390
9385	19	50	0.014	0.070	1.110	726
9386	19	100	0.014	0.080	1.470	1383
9387	19	150	0.014	0.090	1.800	2088
9388	19	200	0.014	0.090	2.040	2772
9389	19	300	0.014	0.110	2.440	4050
9390	19	400	0.014	0.110	2.800	5573
9391	19	600	0.014	0.110	3.400	5780

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TYPE CAK - FIGURE 8 SELF-SUPPORTING/AIR CORE - RUS SPEC. PE-38

Construction

Conductor:
- Solid soft drawn annealed bare copper.

Insulation:
- Polyolefin or solid virgin high-density polyethylene with standard telephone industry color-coding.

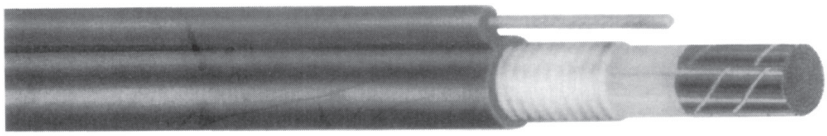
Cable Core Assembly:
- Insulated conductors are twisted into pairs with varying lays (twist lengths) to minimize crosstalk and meet strict capacitance unbalance limits. Cables containing over 25 pairs are cabled and assembled in sub-units, each identified by color coded unit binders.

Shielding:
- A corrosion/oxidation resistant blue tinted ethylene copolymer coated (on both sides) overlapping 0.008" thick corrugated aluminum tape shield is applied longitudinally with overlap to provide 100% electrical shielding coverage.

Messenger Strand:
- 1/4" diameter 7-wire Extra High Strength (6,650 lb. test strength) galvanized steel messenger strand is integrated within the outer jacket in a "figure 8" configuration. The strand interstices are flooded with an asphaltic sealing compound to prevent possible moisture migration from splicing points. The jacket forms a "web" between messenger and cable thus permitting specialized suspension clamps to grip the jacketed messenger (no stripping needed) without damaging the cable jacket.

Jacket:
- Black polyethylene. It is compounded to withstand sunlight, temperature variations, and other environmental conditions, including abuse during installation.

Footage Marking:
- Footage markings are printed sequentially every two feet along the outer jacket to provide readily accurate records of cable usage and continuous-length reel contents.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.*	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
8740	24	6	0.008	0.060	0.380	233
8741	24	12	0.008	0.060	0.440	262
8742	24	18	0.008	0.060	0.480	287
8743	24	25	0.008	0.060	0.530	318
8744	24	50	0.008	0.060	0.680	428
8745	24	75	0.008	0.060	0.770	543
8746	24	100	0.008	0.060	0.860	633
8747	24	150	0.008	0.070	1.030	843
8748	24	200	0.008	0.070	1.160	1068
8749	24	300	0.008	0.080	1.400	1448
8750	24	400	0.008	0.080	1.580	1827
8756	22	6	0.010	0.060	0.400	255
8757	22	12	0.010	0.060	0.490	292
8758	22	18	0.010	0.060	0.560	333
8759	22	25	0.010	0.060	0.630	391
8760	22	50	0.010	0.060	0.800	563
8761	22	100	0.010	0.070	1.070	880
8762	22	150	0.010	0.070	1.280	1203
8763	22	200	0.010	0.080	1.450	1551
8765	19	3	0.014	0.060	0.410	255
8766	19	6	0.014	0.060	0.520	298
8767	19	12	0.014	0.060	0.630	388
8768	19	18	0.014	0.060	0.730	484
8769	19	25	0.014	0.060	0.820	566
8770	19	50	0.014	0.070	1.110	933
8771	19	100	0.014	0.080	1.470	1595

* This Horizontal Minor Diameter is the measurement across the cable core and jacket. For the Vertical MAJOR Diameter, add 1/2" to allow for the jacketed messenger strand plus web.

T

TELEPHONE CABLE

TYPE BJFA - FILLED DIRECT BURIAL - AERIAL & DUCT
RUS SPEC. PE-39, RUS (REA) DESIGNATION BFCA

Construction

Conductor:
- Solid soft drawn annealed bare copper.

Insulation:
- Polyolefin, or solid virgin high-density polyethylene with telephone industry color-coding.

Cable Core Assembly:
- Insulated conductors are twisted into pairs with varying lays (twist lengths) to minimize crosstalk and meet strict capacitance unbalance limits. Cables containing over 25 pairs are cabled and assembled in sub-units, each identified by color code unit binders.

Shielding:
- 0.008" thick corrugated aluminum tape shield with a corrosion resistant, blue tinted ethylene copolymer coating on both sides. This shield is applied longitudinally with overlap to provide 100% electrical shielding coverage and flooded with a flooding compound.

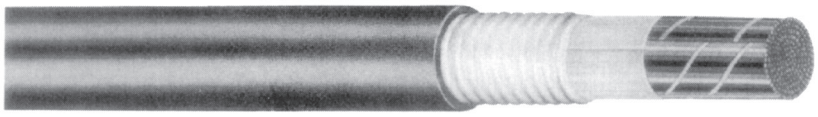
Jacket:
- Black polyethylene. It is compounded to withstand sunlight, temperature variations, and other environmental conditions, including abuse during installation.

Footage Marking:
- Footage markings are printed sequentially every two feet along the outer jacket.

Filling:
- The entire cable within the outer jacket is flooded with a petrolatum-polyethylene gel filling compound to eliminate possible moisture content, migration or ingress, thus providing improved electrical characteristic stability.

Application:
- Designed for use as a duct or **direct burial** cable in either exchange area service or trunk service.

NOTE: Also available with .005 copper tape shield or a gopher resistant .006 or .005 copper clad steel or alloy 194. Must specify when ordering.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
8450	24	6	0.012	0.060	0.410	97
8451	24	12	0.012	0.060	0.490	142
8452	24	18	0.012	0.060	0.530	185
8453	24	25	0.012	0.060	0.610	227
8454	24	50	0.012	0.060	0.770	370
8455	24	75	0.012	0.060	0.910	542
8456	24	100	0.012	0.070	1.020	695
8457	24	150	0.012	0.070	1.200	988
8458	24	200	0.012	0.070	1.400	1308
8459	24	300	0.012	0.075	1.660	1910
8460	24	400	0.012	0.080	1.890	2602
8461	24	600	0.012	0.090	2.320	3811
8462	24	900	0.012	0.100	2.710	5868
8463	24	1200	0.012	0.100	3.080	6754
8464	24	1500	0.012	0.100	3.400	8720
8465	24	1800	0.012	0.100	3.690	11800
8466	24	2100	0.012	0.084	3.960	11816
8556	22	6	0.015	0.060	0.470	134
8557	22	12	0.015	0.060	0.560	193
8558	22	18	0.015	0.060	0.690	251
8559	22	25	0.015	0.060	0.740	331
8560	22	50	0.015	0.070	0.980	572
8561	22	100	0.015	0.070	1.290	1047
8562	22	150	0.015	0.075	1.540	1518
8563	22	200	0.015	0.080	1.760	2073
8564	22	300	0.015	0.090	2.120	3158
8565	22	400	0.015	0.090	2.400	3875
8566	22	600	0.015	0.100	2.900	6091
8567	22	900	0.015	0.100	3.420	9140
8666	19	6	0.021	0.060	0.640	203
8667	19	12	0.021	0.060	0.750	339
8668	19	18	0.021	0.060	0.880	467
8669	19	25	0.021	0.070	1.020	601
8670	19	50	0.021	0.075	1.350	1082
8671	19	100	0.021	0.080	1.740	2126
8672	19	150	0.021	0.090	2.100	3194
8673	19	200	0.021	0.090	2.380	4121
8674	19	300	0.021	0.100	2.880	6266
8675	19	400	0.021	0.100	3.500	8380

NOTE: 0.005" copper tape shield is available on special order. Pulling eyes are available. Please check sales office for pricing. All cable dimensions and weights are subject to normal manufacturing tolerances.

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FOAM/SKIN FILLED CABLES, DIRECT BURIAL, AERIAL, DUCT - RUS SPEC. PE-89

Construction

Conductor:
- Solid annealed bare copper.

Insulation:
- Inner layer of foamed natural polyolefin or polyethylene expanded 50% by volume, plus a 0.002 thick of color coded solid polyethylene or polypropylene. Color coded in accordance with standard telephone industry code.

Cable Core Assembly:
- Individual conductors twisted into pairs with varying lays to minimize crosstalk and with specified color combinations to provide pair identification.
- Cables having 25 pairs and less are assembled in a single group. Cables having more than 25 pairs are assembled in units, each individually identified by color coded unit binders. The interstices between the pairs are filled with an 80°C filling compound.

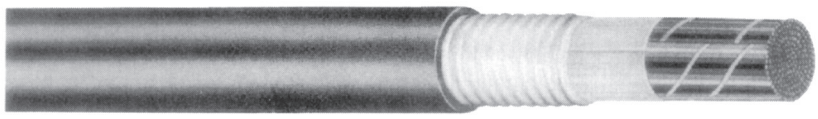
Core Covering:
- Non-hygroscopic dielectric tape.

Shielding:
- BJFAF Shielding: 0.008" (0.203mm) thick corrugated aluminum tape shield with a corrosion/oxidation-resistant, ethylene copolymer coating on both sides, applied with no overlap at any point along the cable.
- BFASF Double Shield: Same as BJFAF plus 0.006" (0.152mm) thick corrugated steel tape shield with a corrosion-resistant, green tinted ethylene copolymer coating on both sides, applied longitudinally with overlap to provide resistance to gopher attack or other severe service conditions.

Jacket:
- Black polyehtylene.

Footage Marking:
- Sequentially numbered length markings are located at 2 ft. intervals.

Applications:
- Cable is designed for use in duct, aerial or **direct burial**, in either exchange area service or trunk service. The core is filled with an 80°C filling compound and the sheath interfaces are flooded with a flooding compound. The polymer coating provides additional corrosion protection for the aluminum shield.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	NOMINAL THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INSULATION	JACKET	INCHES	LBS/MFT
88700	24	6	0.008	0.060	0.36	83
88701	24	12	0.008	0.060	0.43	115
88702	24	18	0.008	0.060	0.48	148
88703	24	25	0.008	0.060	0.54	188
88704	24	50	0.008	0.060	0.67	302
88705	24	75	0.008	0.060	0.78	411
88706	24	100	0.008	0.070	0.89	535
88707	24	150	0.008	0.070	1.05	783
88708	24	200	0.008	0.070	1.21	1004
88709	24	300	0.008	0.075	1.39	1473
88710	24	400	0.008	0.080	1.63	1877
88711	24	600	0.008	0.090	1.94	2756
88712	24	900	0.008	0.100	2.33	4206
88713	24	1200	0.008	0.100	2.73	5530
88714	24	1500	0.008	0.100	3.06	6725
88715	24	1800	0.008	0.100	3.32	8283
88716	24	2100	0.008	0.100	3.56	10496
88717	24	2400	0.008	0.100	3.78	11628
88251	22	6	0.010	0.060	0.40	106
88252	22	12	0.010	0.060	0.48	161
88253	22	18	0.010	0.060	0.55	205
88254	22	25	0.010	0.060	0.62	261
88255	22	50	0.010	0.070	0.83	418
88256	22	75	0.010	0.070	0.97	623
88257	22	100	0.010	0.070	1.08	837
88258	22	150	0.010	0.075	1.27	1173
88259	22	200	0.010	0.080	1.43	1539
88260	22	300	0.010	0.090	1.71	2194
88261	22	400	0.010	0.090	1.94	2971
88262	22	600	0.010	0.100	2.33	4386
88263	22	900	0.010	0.100	2.81	6348
88264	22	1200	0.010	0.083	3.34	8503
88265	22	1500	0.010	0.084	3.68	11338
88450	19	6	0.014	0.060	0.49	163
88451	19	12	0.014	0.060	0.61	259
88452	19	18	0.014	0.060	0.72	353
88453	19	25	0.014	0.070	0.84	446
88454	19	50	0.014	0.075	1.09	811
88455	19	75	0.014	0.075	1.28	1146
88456	19	100	0.014	0.080	1.44	1589
88457	19	150	0.014	0.090	1.75	2200
88458	19	200	0.014	0.090	2.02	2998
88459	19	300	0.014	0.100	2.42	4436
88460	19	400	0.014	0.100	2.76	5714
88461	19	600	0.014	0.084	3.43	8677

NOTE: Pulling eyes are available.
Please check sales office for pricing.
All cable dimensions and weights are subject to normal manufacturing tolerances.
Must specify type of shield when ordering.

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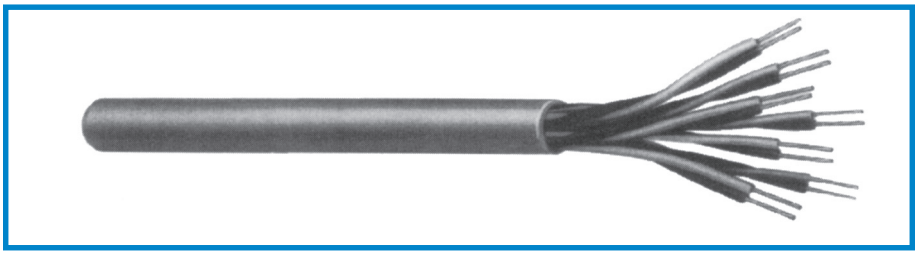
CATEGORY 3 RISER COMMUNICATIONS CABLES

UL LISTED TYPE MPR/CMR, c(UL) CMG, NEC ARTICLE 800 - 300 VOLT

California State Fire Marshal Approved

Construction

- Solid Bare Copper Conductors.
- Band Marked PVC Insulation.
- Ripcord for Easy Jacket Stripping.
- Gray PVC Jacket.
- Meets Cat 3 Electrical Requirements.
- Maximum Operating Temperature: 80°C.
- "CMR"



MULTI-PAIR UNSHIELDED

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	NOMINAL O.D. INCHES	APPROX. WEIGHT LBS./MFT.
33250	24 SOLID	2†	.130	10
33251	24 SOLID	3	.140	16
33252	24 SOLID	4*	.152	19
33253	24 SOLID	6	.185	28
33254	24 SOLID	12	.240	49
33255	24 SOLID	25	.345	95
33256	24 SOLID	50	.450	190
33257	24 SOLID	100	.650	360
33258	24 SOLID	200	.870	705
33259	24 SOLID	300	1.270	1055
33270	22 SOLID	2	.150	14
33271	22 SOLID	3	.160	20
33272	22 SOLID	4	.180	28
33273	22 SOLID	6	.225	40
33274	22 SOLID	12	.290	70
33275	22 SOLID	25	.400	140
33276	22 SOLID	50	.610	280
33277	22 SOLID	100	.820	530

† CMR Only * ETL Verified 4PR Only

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Conductor Type: 22 & 24 AWG Solid Bare Copper
Max DC Resistance: 28.6 OHMS/1000 ft.

	1 MHz	4 Mhz	10 MHz	16 MHz
Impedance: (OHMS)	85-115	85-115	85-115	85-115
Attenuation: (dB/1000 ft. Max.)	7.8	17	30	40
*Next (dB/1000 ft. Min.)	41	32	26	23
Mutual Capacitance (MAX): 20 pF/ft.				

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Typical Electrical Performance in 12-100 Pair Cables

Levels	Impedance	Attenuation (dB/1000 ft.)
1	N/A	N/A
2	90 OHMS (+/-) 15%	10 dB @ 1 MHz
3	100 OHMS (+/-) 15%	8.2 dB @ 1 MHz
		30 dB @ 10 MHz

Put-ups: 1000' Reels

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CATEGORY 5e RISER COMMUNICATIONS CABLES

UL LISTED TYPE MPR/CMR, c(UL) CMG, ANSI/TIA/EIA-568-A-5 NEC ARTICLE 800 - 300 VOLT

California State Fire Marshal Approved

Construction

- Solid Bare Copper Conductors.
- Color Coded Polyethylene Insulation.
- Twisted Pairs are Cabled.
- Flame Retardant PVC Jacket.
- Meets Cat. 5e Electrical Requirements.
- **Tested to 100 MHz.**
- Maximum Operating Temperature 75°C.
- "CMR"

MULTI-PAIR UNSHIELDED

CUSTOM CATALOG NUMBER	JACKET COLOR	CUSTOM CATALOG NUMBER	JACKET COLOR
24 AWG SOLID BARE COPPER — 4 PAIR			
34900	White	34903	Green
35400	Gray	34904	Black
34901	Blue	34905	Orange
34902	Yellow		

.175 Nom. O.D. **Approx. Wt: 21 lbs./mft.**

CATEGORY 5e ENHANCED RISER COMMUNICATIONS CABLES

Construction

- Exceeds Cat 5e Electrical Requirements.
- **Tested to 350 MHz for Zo, Next, RL, Atten., PSNext, ElFext, PSElFext and Skew.**
- Maximum Operating Temperature 75°C.
- Multi-Pair UnShielded
- "CMR"

CUSTOM CATALOG NUMBER	AWG/MCM	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
34925	24	4	White*	.175	21

* OTHER COLORS AVAILABLE ON SPECIAL ORDER.

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CATEGORY 5e SHIELDED RISER COMMUNICATIONS CABLES

UL LISTED TYPE MPR/CMR, c(UL) CMG, ANSI/TIA/EIA-568-A-5 NEC ARTICLE 800 - 300 VOLT

California State Fire Marshal Approved

Construction

- Solid Bare Copper Conductors.
- Color Coded Polyethylene Insulation.
- Twisted Pairs are Cabled.
- Overall Aluminum/Polyester Shield and Drain Wire.
- Flame Retardant PVC Jacket.
- Meets Cat. 5e Electrical Requirements.
- Tested to 100 MHz.
- Maximum Operating Temperature 75°C.
- **Multi-Pair Shielded.**

CUSTOM CATALOG NUMBER	AWG/MCM	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
35410	24	4	White*	.225	28

* OTHER COLORS AVAILABLE ON SPECIAL ORDER.

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CATEGORY 5 — UTP 4 PAIR #24 AWG - OUTSIDE PLANT CABLE

OUTDOOR DUCT

Construction

Primaries:
- Conductor: 24 AWG Solid Bare Copper.

Insulation:
- Thermoplastic Polyolefin.

Cable Assemble:
- 4 pairs Cabled Together.

Jacket:
- Material: UV Resistant Black Polyethylene.
- Nominal Wall: .015".
- Nominal Diameter: .193".
- **Note: Cable Flooded for Moisture Protection.**
- Bend Radius: 2.0" Min. (10x Cable OD).
- Cable Weight: 22 lbs./1000 ft.
- Operating Temp.: -40°C to +60°C.
- Installation Temp.: -20°C to +60°C.
- The Installation Temperature Refers to the Temperature of the Cable While being Installed or Pulled.

Electrical Characteristics:
- Standards: TIA/EIA 568-B CAT 5 Horizontal Cable.
- Voltage Rating: 300 Volts.
- Mutual Capacitance: 46 pF/m Nom.
- Capacitance Unbalance Pair/Ground: 132 pF/100m Max.
- Characteristic Impedance: 100 Ω ± 15%.

CUSTOM CATALOG NUMBER
33545

Power Sum Verified to 100MHz.

CATEGORY 5e — OUTDOOR CABLE 4 PAIR #24 AWG

SUITABLE FOR DIRECT BURIAL

Construction

Primaries:
- Conductor: 24 AWG Solid Bare Copper.
- Insulation: Black Polyethylene.

Cable Assembly:
- 4 Pairs Cabled Together.
- Insulation .010 PE.
- Jacket: .030 PE With Floodant.
- Tough UV & Abrasion Resistant Jacket.

Cable Assembly (cont'.):
- Nominal Outside Diameter: .230".
- **Note: Cable Flooded for Moisture Protection.**
- Cable Weight: 25 lbs. Mft.
- Mutual Capacitance: 55.8 pF/m (17 pF/ft) Nom.
- Characteristic Impedance: 100Ω ± 15% (1-100 MHz).
- Nominal Velocity of Propagation: 69%.
- Operating Temperature: -70°C +70°C.
- Standards: TIA/EIA 568-B.2.
- ISO/IEC 11801.
- 100 MHZ.

CUSTOM CATALOG NUMBER
33535

NOTE: Unshielded. Material Suitable for Direct Burial if environmental elements are not too demanding. Can also be used in duct or aerially lashed to a support member.

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CATEGORY 5 — OUTDOOR SHIELDED 4 PAIR #24 AWG

SUITABLE FOR DIRECT BURIAL

Construction

Primaries:
- Conductor: 24 AWG Solid Bare Copper.
- Insulation: Thermoplastic Polyolefin.

Cable Assembly:
- 4 Pairs Cabled Together.
- Inner Material: Black Polyethylene.
- Nominal Wall: .030".
- Nominal Diameter: .223".
- Shield: Corrugated Coated Aluminum Tape.
- Outer Material: Black Polyethylene.
- Nominal Wall: .045".
- Nominal Diameter: .420".
- **Note: Cable Flooded for Moisture Protection.**
- Bend Radius: 6.25" Min. (15 x Cable OD)
- Cable Weight: 87 lbs./1000 ft.
- Operating Temp.: -40°C to +60°C.
- Installation Temp.: -20°C to +60°C.
- The Installation Temperature Refers to the Temperature of the Cable While Being Installed or Pulled.

Electrical Characteristics:
- Standards: TIA/EIA 568-B.2 CAT 5.
- Horizontal Cable.
- Voltage Rating: 300 Volts.
- Mutual Capacitance: 46 pF/m Nom.
- Capacitance Unbalance.
- Pair/Ground: 132 pF/100m Max.

Characteristic Impedance:
- 100Ω ± 15%

Attenuation:
- $1.967\sqrt{f} + .023f + \frac{.050}{\sqrt{f}}$ dB/100m MAX

CUSTOM CATALOG NUMBER
33540

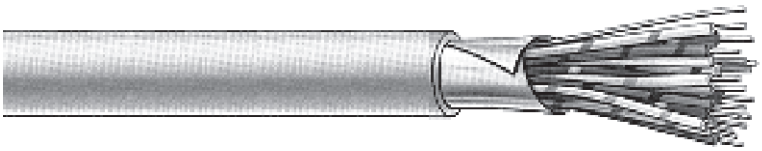
Power Sum Verified to 100MHz.

NOTE: Corrugated shield acts as an armor making it more resistant to rodents and the outside elements.

UL LISTED TYPE MPR/CMR, c(UL) CMG, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Band Marked PVC Insulation.
- **Overall Aluminum/Polyester Shield & 24 AWG Solid T.C. Drain Wire.**
- Ripcord for Easy Jacket Stripping.
- Gray PVC Jacket.
- Maximum Operating Temperature: 80°C.
- "CMR"



California State Fire Marshal Approved

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	DESCRIPTION	NOMINAL O.D. INCHES	NOMINAL WEIGHT PER M. FT.
32500	24	2	SHIELDED	.134	13
32501	24	3	SHIELDED	.145	17
32502	24	4	SHIELDED	.155	21
32503	24	6	SHIELDED	.190	32
32505	24	12	SHIELDED	.245	55
32515	24	25	SHIELDED	.340	102
32517	24	50	SHIELDED	.510	200
32522	24	100	SHIELDED	.650	365
32550	22	2	SHIELDED	.155	17
32551	22	3	SHIELDED	.175	22
32552	22	4	SHIELDED	.195	29
32554	22	6	SHIELDED	.215	43
32556	22	12	SHIELDED	.305	78
32558	22	25	SHIELDED	.410	150
32560	22	50	SHIELDED	.580	300
32565	22	100	SHIELDED	.830	590

Put-ups: 1000' Reels.
Standard Telephone Wire Color Code: See diagram on page T-16.
Meets CAT1 electrical requirements.

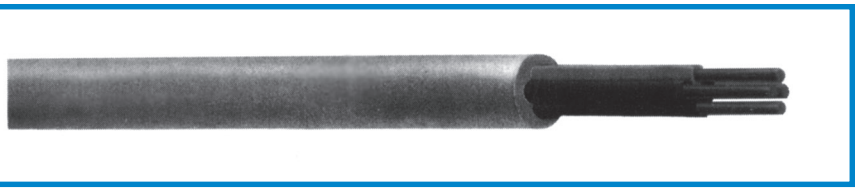
T

TELEPHONE STATION WIRE

UL LISTED TYPE CM - NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Polyethylene Insulation.
- Gray PVC Jacket.



MULTI-CONDUCTOR STATION WIRE

CUSTOM CATALOG NUMBER	AWG SOLID BARE COPPER	NUMBER OF CONDUCTORS	NOMINAL O.D. INCHES	APPROX. WEIGHT PER M. FT.
22600	22	4	.134	17

California State Fire Marshal Approved.
Put-ups: 1000' Reels or Easypac

PLENUM STATION WIRE

UL LISTED TYPE CMP - c(UL) CMP - NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Plenum Insulation.
- White Plenum Jacket.

CUSTOM CATALOG NUMBER	AWG SOLID BARE COPPER	NUMBER OF CONDUCTORS	NOMINAL O.D. INCHES	APPROX. WEIGHT PER M. FT.
22650	22	4	.125	15
22651	24	4	.110	10

California State Fire Marshal Approved.
Color Code: Red, Green, Yellow, Black
Put-ups" 1000' Reels

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SHIELDED PLENUM STATION WIRE

Construction

- Solid Bare Copper Conductors.
- Plenum Insulation.
- Conductors are Cabled.
- Overall Aluminum/Polyester Shield and 24 AWG Solid T.C. Drain Wire.
- White Plenum Jacket.

CUSTOM CATALOG NUMBER	AWG SHIELDED	NUMBER OF CONDUCTORS	NOMINAL O.D. INCHES	APPROX. WEIGHT PER M. FT.
22660	22	4	.125	15
22661	24	4	.110	12

Put-ups" 1000' Reels

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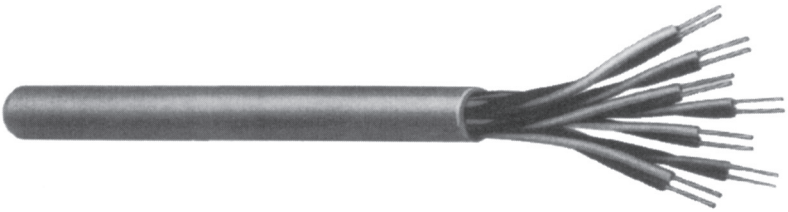
CATEGORY 3 EXTRA FLEXIBLE PLENUM COMMUNICATIONS CABLES

UL LISTED TYPE MPP/CMP, c(UL) CMP, TIA/EIA 568A, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Brand Marked Plenum Insulation.
- **Meets Cat 3 Electrical Requirements.**
- Multi-Pair **Unshielded.**
- Maximum Operating Temperature: 75°C.
- "CMP"



California State Fire Marshal Approved.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	NOMINAL O.D. INCHES	APPROX. WEIGHT PER M. FT.
33500	24	2	.130	11
33501	24	3	.140	16
33502**	24	4	.155	20
33503	24	6	.185	27
33504	24	12	.245	49
33505	24	25	.330	92
33506	24	50	.460	198
33507	24	100	.640	350
33508	24	200†	.850	705
33509	24	300†	1.250	1050
33520	22	2	.150	15
33521	22	3	.159	20
33522	22	4	.175	26
33523	22	6	.210	37
33524	22	12	.285	68
33525	22	25	.365	140
33526	22	50	.540	280
33527	22	100	.740	590

** ETL/UL Verified Only
† Clear PVDF Jacket

NOTE: 24 AWG comes in white, green or gray jacket. Must specify when ordering or we will ship whatever is available.
22 AWG comes in white jacket only.

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ETL VERIFIED

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CATEGORY 5/5E PLENUM COMMUNICATIONS CABLES

UL LISTED TYPE MPP/CMP, c(UL) CMP, ANSI/TIA/EIA-568-A-5, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Color Coded FEP Insulation.
- Twisted Pairs Are Cabled.
- Plenum Jacket.
- Meets Cat 5e Electrical Requirements.
- Multi-Pair **Unshielded**.
- Maximum Operating Temperature: 75°C.
- **Tested to 100 MHz.**
- **(ETL) Verified**

California State Fire Marshal Approved.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	JACKET COLOR	NOMINAL O.D. INCHES	NOMINAL WEIGHT PER M. FT.
35390	24	4	White	.170	22
35401	24	4	Blue	.170	22
35391	24	4	Gray	.170	22
35392	24	4	Yellow	.170	22
CAT 5 ONLY					
35285	24	4	White	.160	20
35286	24	4	Blue	.160	20

CATEGORY 5E ENHANCED PLENUM COMMUNICATIONS CABLES

Construction

- Unshielded.
- Exceeds CAT 5e Electrical Requirements.
- **Tested to 350 MHz for Zo, Next, RL, Atten, PSNext, ElFext, PSElFext and Skew.**
- Multi-Pair Unshielded.
- Maximum Operating Temperature: 75°C.

CUSTOM CATALOG NUMBER	AWG	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
36000	24	4	White	.170	22
36001	24	4	Blue	.170	22
36002	24	4	Gray	.170	22

CATEGORY 5E SHIELDED PLENUM COMMUNICATIONS CABLES

UL LISTED TYPE MPP/CMP, c(UL) CMP, ANSI/TIA/EIA-568-A-5, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Color Coded FEP Insulation.
- Twisted Pairs are Cabled.
- **Overall Aluminum/Polyester Shield and Drain Wire.**
- Plenum Jacket.
- Meets Cat 5e Electrical Requirements.
- **Tested to 100 MHz.**
- Maximum Operating Temperature: 75°C.

CUSTOM CATALOG NUMBER	AWG	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
35411	24	4	White	.220	32

California State Fire Marshal Approved.

CATEGORY 6 PLENUM COMMUNICATIONS CABLES

UL LISTED TYPE MPP/CMP, c(UL) CMP, NEMA WC-66-1999, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Color Coded FEP Insulation.
- Twisted Pairs are Cabled.
- Plenum Jacket.
- Meets Cat 6 Electrical Requirements.
- **Tested to 250 MHz.**
- Multi-Pair **Unshielded**.
- Maximum Operating Temperature: 75°C.
- "CMP"

CUSTOM CATALOG NUMBER	AWG	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
35500	24	4	Blue	.215	30
35501	24	4	White	.215	30

California State Fire Marshal Approved.

UL VERIFIED

CATEGORY 6 RISER COMMUNICATIONS CABLES

UL LISTED TYPE MPR/CMR, c(UL) CMG, NEMA WC-66-1999, NEC ARTICLE 800 - 300 VOLT

T

Construction

- Solid Bare Copper Conductors.
- Color Coded Polyethylene Insulation.
- Twisted Pairs are Cabled.
- Flame Retardant PVC Jacket.
- Meets Cat 6 Electrical Requirements.
- **Tested to 250 MHz.**
- Multi-Pair **Unshielded**.
- Maximum Operating Temperature: 75°C.
- "CMR"

CUSTOM CATALOG NUMBER	AWG	NO. OF PAIRS	JACKET COLOR	NOMINAL O.D.	APPROX. WT. PER M. FT.
35550	24	4	Blue	.220	27
35551	24	4	White	.220	27

California State Fire Marshal Approved.

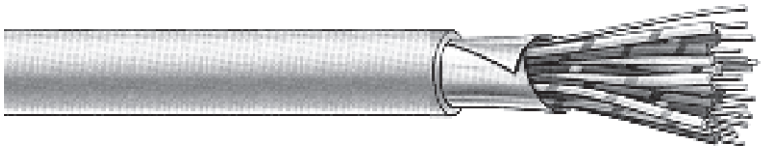
UL VERIFIED

SHIELDED PLENUM COMMUNICATIONS CABLES

UL LISTED TYPE MPP/CMP, c(UL) CMP, NEC ARTICLE 800 - 300 VOLT

Construction

- Solid Bare Copper Conductors.
- Band Marked Plenum Insulation.
- Overall Aluminum/Polyester Shield & 24 AWG Solid T.C. Drainwire.
- White Plenum Rated Jacket.
- Multi-Pair **Shielded**.
- Maximum Operating Temperature: 75°C.
- "CMP"



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	NOMINAL O.D. INCHES	APPROX. WEIGHT PER M. FT.
36200	24	2	.133	12
36201	24	3	.141	16
36202	24	4	.155	20
36203	24	6	.185	27
36204	24	12	.244	49
36205	24	25	.317	95
36206	24	50	.500	190
36207	24	100	.647	375
36220	22	2	.153	16
36221	22	3	.162	24
36222	22	4	.178	27
36223	22	6	.213	38
36224	22	12	.288	73
36225	22	25	.370	144
36226	22	50	.553	290
36227	22	100	.743	595

California State Fire Marshal Approved.
Meets Cat. 1 Electrical Requirements.

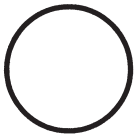
T

INSIDE TELEPHONE WIRE & SWITCHBOARD CABLE - BAND MARKED - PLENUM & PVC

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White-Blue	Blue-White	14	Black-Brown	Brown-Black
2	White-Orange	Orange-White	15	Black-Slate	Slate-Black
3	White-Green	Green-White	16	Yellow-Blue	Blue-Yellow
4	White-Brown	Brown-White	17	Yellow-Orange	Orange-Yellow
5	White-Slate	Slate-White	18	Yellow-Green	Green-Yellow
6	Red-Blue	Blue-Red	19	Yellow-Brown	Brown-Yellow
7	Red-Orange	Orange-Red	20	Yellow-Slate	Slate-Yellow
8	Red-Green	Green-Red	21	Violet-Blue	Blue-Violet
9	Red-Brown	Brown-Red	22	Violet-Orange	Orange-Violet
10	Red-Slate	Slate-Red	23	Violet-Green	Green-Violet
11	Black-Blue	Blue-Black	24	Violet-Brown	Brown-Violet
12	Black-Orange	Orange-Black	25	Violet-Slate	Slate-Violet
13	Black-Green	Green-Black			

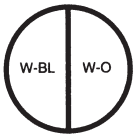
Telephone cables manufactured with more than 25 pairs are manufactured in groups with different binder colors around each group, as described below.

BINDER COLOR CODE	
W-BL	White/Blue
W-O	White/Orange
W-G	White/Green
W-BR	White/Brown
W-GR	White/Gray
R-BL	Red/Blue
R-O	Red/Orange
R-G	Red/Green

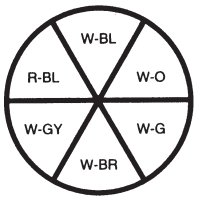


25 PAIR

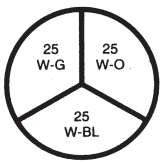
37 PAIR



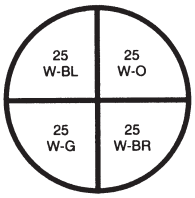
50 PAIR



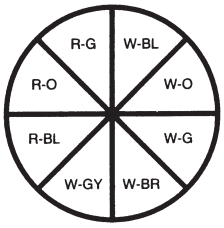
150 PAIR



75 PAIR



100 PAIR



200 PAIR

T

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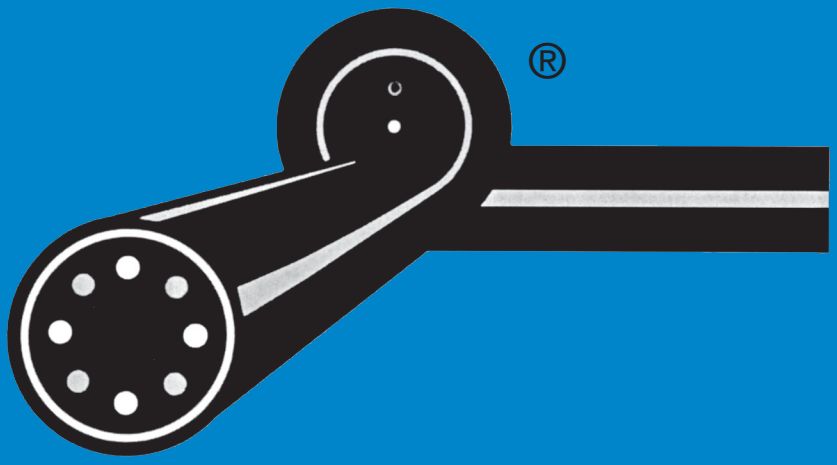
PLENUM CABLE



NEC ARTICLE 725-2(b) - MULTI-CONDUCTOR - UNSHIELDED PLENUM

NEC TYPE CMP OR CL3P 150 VOLT

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-3 or stranded tinned copper per ASTM B-33.

Insulation:
- Flexguard® or color coded fluorocopolymer.

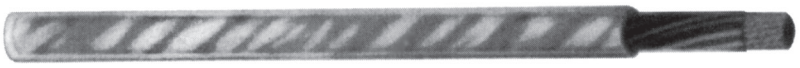
Jacket:
- Flexguard® or fluorocopolymer, natural color.
- Voltage Rating: 150 volts +60°C.

Applications:
- Power limited circuits.
- Communication and signal applications.
- Cash registers.
- Computer systems interfaces.
- Intercom systems.
- Burglar alarms.
- Remote controls.
- Low voltage applications.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 725 (UL: 60°C 150 volt).
- OSHA acceptable.

Packaging:
- 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11400F	22	2	7/30	0.007	0.015	0.115	9
11800F	22	3	7/30	0.007	0.015	0.125	11
11401F	22	4	7/30	0.007	0.015	0.135	15
11402F	22	6	7/30	0.007	0.015	0.160	21
11403F	22	8	7/30	0.007	0.015	0.175	27
11404F	22	10	7/30	0.007	0.015	0.210	35
11420F	20	2	7/28	0.008	0.015	0.135	12
11801F	20	3	7/28	0.008	0.015	0.140	17
11421F	20	4	7/28	0.008	0.015	0.155	22
11422F	20	6	7/28	0.008	0.015	0.180	33
11423F	20	8	7/28	0.008	0.015	0.210	44
11424F	20	10	7/28	0.008	0.015	0.230	55
11440F	18	2	7/26	0.010	0.015	0.155	18
11802F	18	3	7/26	0.010	0.015	0.165	26
11441F	18	4	7/26	0.010	0.015	0.185	32
11442F	18	6	7/26	0.010	0.015	0.220	47
11443F	18	8	7/26	0.010	0.015	0.230	63
11444F	18	10	7/26	0.010	0.015	0.270	78
11445F	18	12	7/26	0.010	0.017	0.282	90
11460F	16	2	19/29	0.010	0.015	0.175	27
11803F	16	3	19/29	0.010	0.015	0.185	38
11461F	16	4	19/29	0.010	0.015	0.200	49
11462F	16	6	19/29	0.010	0.015	0.215	68
11463F	16	8	18/29	0.010	0.015	0.225	83
11464F	16	10	18/29	0.010	0.015	0.265	97
11814F	14	2	19/27	0.012	0.015	0.205	42
11804F	14	3	19/27	0.012	0.017	0.220	60
11815F	12	2	19/25	0.012	0.017	0.245	62
11805F	12	3	19/25	0.012	0.017	0.260	83

Note: Materials and construction subject to change without notice. We reserve the right to supply compounds for plenum applications approved by NEC and/or UL.

U

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

UL® LISTED Type CMP

UL® LISTED Type CL3P

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NEC ARTICLE 725-2(b) - MULTI-CONDUCTOR - FOIL SHIELDED PLENUM

NEC TYPE CL3P OR CMP, c(UL)PCC, 150 VOLT

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-3 or stranded tinned copper per ASTM B-33.

Insulation:
- Flexguard® or color coded fluorocopolymer.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

Jacket:
- Flexguard® or fluorocopolymer, natural color.
- Voltage Rating: 150 volts +60°C.

Applications:
- Power limited circuits.
- Communication and signal applications.
- Cash registers.
- Computer systems interfaces.
- Intercom systems.
- Burglar alarms.
- Remote controls.
- Low voltage applications.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding electrical and mechanical properties.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 725 (UL: 60°C, 150 volt).
- OSHA acceptable.

Packaging:
- 1000 ft. spools.

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11400SF	22	2	7/30	0.007	0.015	0.120	11
11800SF	22	3	7/30	0.007	0.015	0.125	14
11401SF	22	4	7/30	0.007	0.015	0.135	17
11402SF	22	6	7/30	0.007	0.015	0.165	24
11403SF	22	8	7/30	0.007	0.015	0.180	30
11404SF	22	10	7/30	0.007	0.018	0.215	38
11420SF	20	2	7/28	0.008	0.015	0.135	15
11801SF	20	3	7/28	0.008	0.015	0.145	19
11421SF	20	4	7/28	0.008	0.015	0.160	24
11422SF	20	6	7/28	0.008	0.015	0.185	35
11423SF	20	8	7/28	0.008	0.010	0.215	46
11424SF	20	10	7/28	0.008	0.010	0.235	56
11440SF	18	2	7/26	0.010	0.015	0.160	20
11802SF	18	3	7/26	0.010	0.015	0.170	27
11441SF	18	4	7/26	0.010	0.010	0.190	34
11442SF	18	6	7/26	0.010	0.017	0.225	50
11443SF	18	8	7/26	0.010	0.017	0.235	65
11444SF	18	10	7/26	0.010	0.017	0.280	80
11445SF	18	12	7/26	0.010	0.017	0.290	92
11460SF	16	2	19/29	0.010	0.015	0.185	29
11803SF	16	3	19/29	0.010	0.016	0.195	40
11461SF	16	4	19/29	0.010	0.016	0.205	50
11462SF	16	6	19/29	0.010	0.010	0.225	70
11463SF	16	8	19/29	0.010	0.012	0.255	89
11464SF	16	10	19/29	0.010	0.012	0.288	104
11814SF	14	2	19/27	0.012	0.017	0.215	45
11804SF	14	3	19/27	0.012	0.018	0.230	62
11815SF	12	2	19/25	0.012	0.017	0.255	66
11805SF	12	3	19/25	0.012	0.015	0.270	87

Note: Materials and construction subject to change without notice. We reserve the right to supply compounds for plenum applications approved by NEC and/or UL.

U

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

UL® LISTED Type CMP

UL® LISTED Type CL3P

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NEC ARTICLE 725-2(b) - MULTI-PAIRED - INDIVIDUALLY FOIL SHIELDED PLENUM

NEC TYPE CL2P OR CMP, c(UL)PCC, 150 VOLT

Construction

Conductor:
- Fully annealed stranded bare copper per ASTM B-3 or stranded tinned copper per ASTM B-33.
- Twisted pairs.

Insulation:
- Color coded fluorocopolymer.

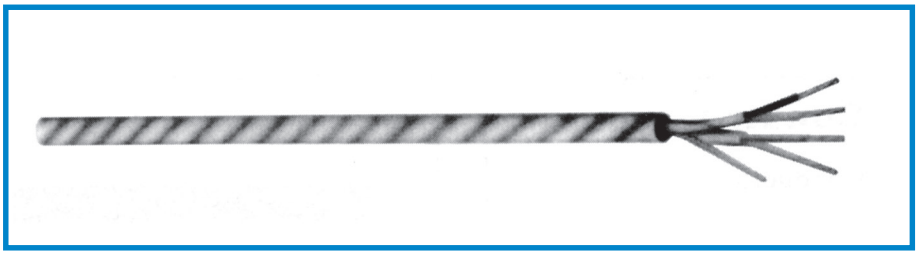
Shield:
- Individually shielded pairs.
- 100% Aluminum/polyester.
- Stranded tinned copper drain wire.

Jacket:
- Fluorocopolymer, natural color.
- Voltage Rating: 150 volts +60°C.

Features:
- Installation in air plenums without the use of conduit.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 725-2(b).
- UL Subject 13, Type CL2P.
- UL Subject 910, Smoke and Flame Test.
- OSHA acceptable.

Packaging:
- 1000 ft spools.



CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS (INCHES) INSULATION	JACKET	NOMINAL O.D. INCHES	NOMINAL WEIGHT LBS/MFT
11554	22	1	7/30	0.007	0.015	0.122	22
11551	22	2	7/30	0.007	0.015	0.141	32
11552	22	3	7/30	0.007	0.015	0.226	51
11553	22	6	7/30	0.007	0.015	0.337	83

Note: Materials and construction subject to change without notice. We reserve the right to supply compounds approved for plenum applications by NEC and/or UL.

MULTI-PAIRED - INDIVIDUALLY FOIL SHIELDED PLENUM

NEC TYPE CMP, c(UL)PCC

Construction

Conductor:
- 22 AWG fully annealed stranded tinned copper per ASTM B-33.

Insulation:
- Premium grade color coded fluorocopolymer.
- Color Code: see chart below.

Shield:
- 100% Aluminum/polyester foil, each pair, 25% overlap.
- Stranded tinned copper drain wire.

Jacket:
- Fluorocopolymer, red.
- Temperature Range: -20°C to +150°C.

Applications:
- Point of Sale systems.
- Remote control circuits.
- Process Control and Instrumentation.
- Power Limited Control Circuits.
- Suggested voltage rating: 300 volts.

Industry Approvals:
- NEC Article 800 (UL: 150°C, 300V).
- c(UL)PCC FT6.

Features:
- Abrasion, chemical & water resistant jacket.

Packaging:
- 1000 ft spools.

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NO. OF PAIRS	COND'R STRAND	NOMINAL THICKNESS INCHES INSUL.	JACKET	NOMINAL O.D. INCHES	NOMINAL CAP. (pF/ft) A	B
11555*	22	2	7/30TC	0.006	0.010	0.147	28.0	50.4
11556	22	3	7/30TC	0.006	0.010	0.184	28.0	50.4

* Cabled on common axis to reduce diameter, foil out, common drain wire.

A - Capacitance between conductors
B - Capacitance between one conductor and other conductors connected to shield.

COLOR CODE CHART

PART # 11555

Pair	*Color*
1	Black paired with Red
2	White paired with Green

PART # 11556

Pair	*Color*
1	Black paired with Red
2	Black paired with White
3	Black paired with Green

U

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NEC ARTICLE 760-2(b) - MULTI-CONDUCTOR - UNSHIELDED PLENUM

NEC TYPE FPLP, 300 VOLT

Construction

Conductor:
- Fully annealed bare solid copper per ASTM B-3.

Insulation:
- Flexguard® or color coded fluorocopolymer.

Jacket:
- Flexguard® or fluorocopolymer, red color.
- Voltage Rating: 300 volts +60°C.

Applications:
- Inside/outside fire and burglar alarm systems.
- Smoke detection systems.
- Voice and digital communications systems.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 760.
- UL Subject 1424, Power Limited Fire Protection Cable, Type FPLP.
- UL Subject 910, Smoke and Flame Test.
- OSHA acceptable.
- UL Type FPLP.

Packaging:
- 1000 ft. spools.

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11250	20	2	Solid	0.007	0.015	0.112	16
11251	20	4	Solid	0.007	0.015	0.131	24
11252	20	6	Solid	0.007	0.015	0.158	32
11260	18	2	Solid	0.010	0.015	0.152	18
11261	18	4	Solid	0.010	0.015	0.177	32
11262	18	6	Solid	0.010	0.015	0.213	46
11270	16	2	Solid	0.010	0.015	0.173	25
11271	16	4	Solid	0.010	0.015	0.202	45
11272	16	6	Solid	0.010	0.015	0.233	69
11280	14	2	Solid	0.012	0.015	0.206	37
11281	14	4	Solid	0.012	0.015	0.242	69
11282	14	6	Solid	0.012	0.015	0.294	106
11290	12	2	Solid	0.012	0.015	0.240	55
11291	12	4	Solid	0.012	0.018	0.289	105
11292	12	6	Solid	0.012	0.015	0.345	156

NOTE: Materials and construction subject to change without notice. We reserve the right to supply compounds approved for plenum applications by NEC and/or UL.

U

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

UL® LISTED Type FPLP

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NEC ARTICLE 760-2(b) - MULTI-CONDUCTOR, FOIL SHIELDED PLENUM

NEC TYPE FPLP, 300 VOLT

Construction

Conductor:
- Fully annealed solid bare copper per ASTM B-3.

Insulation:
- Flexguard® or color coded fluorocopolymer.

Shield:
- 100% Aluminum/polyester, 25% overlap, foil facing in.
- Stranded tinned copper drain wire.

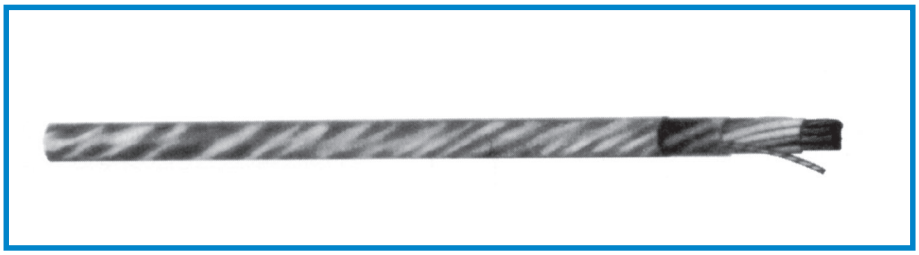
Jacket:
- Flexguard® or fluorocopolymer, red color.
- Voltage Rating: 300 volts +60°C.

Applications:
- Inside/outside fire and burglar alarm systems.
- Smoke detection systems.
- Voice and digital communications systems.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 760.
- UL Subject 1424, Power Limited Fire Protection Cable, Type FPLP.
- OSHA acceptable.
- UL Type FPLP (UL: 60°C, 300 V)

Packaging:
- 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF CONDUCTORS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11250S	20	2	Solid	0.007	0.010	0.116	19
11251S	20	4	Solid	0.007	0.010	0.135	27
11252S	20	6	Solid	0.007	0.010	0.162	36
11260S	18	2	Solid	0.010	0.015	0.154	20
11261S	18	4	Solid	0.010	0.015	0.179	34
11262S	18	6	Solid	0.010	0.015	0.215	49
11270S	16	2	Solid	0.010	0.015	0.175	29
11271S	16	4	Solid	0.010	0.016	0.206	50
11272S	16	6	Solid	0.010	0.015	0.237	77
11280S	14	2	Solid	0.012	0.015	0.208	41
11281S	14	4	Solid	0.012	0.015	0.244	73
11282S	14	6	Solid	0.012	0.015	0.298	119
11290S	12	2	Solid	0.012	0.018	0.248	61
11291S	12	4	Solid	0.012	0.018	0.291	110
11292S	12	6	Solid	0.012	0.018	0.349	176

NOTE: Materials and construction subject to change without notice. We reserve the right to supply compounds approved for plenum applications by NEC and/or UL.

U

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

UL® LISTED Type FPLP

Custom Cable Corp.

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POWER LIMITED FIRE PROTECTIVE SIGNAL CABLE - UNSHIELDED 150°C PLENUM

(UL) FPLP - Also Classified New York City Certified Fire Alarm Cable - 300 Volt (Formally known as Local Laws 5)

Construction

Conductor:
- Fully annealed **solid** bare copper per ASTM B-3.

Insulation:
- Color coded fluorocopolymer. (PVDF or Halar)

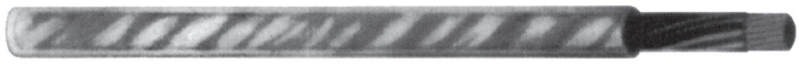
Jacket:
- Fluorocopolymer, **red** color, 150°C. (PVDF or Halar)
- Regular Capacitance.**

Applications:
- Inside/outside fire and burglar alarm systems.
- Smoke detection systems.
- Voice and digital communications systems.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.
- -40°C to +150°C.

Industry Approvals:
- UL Subject 910, Smoke and Flame Test.
- NEC Article 760.

Packaging:
- 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11001	18	1	SOLID	0.015	0.025	0.195	27
11002	18	2	SOLID	0.015	0.025	0.284	49
11020	16	1	SOLID	0.015	0.025	0.215	40
11021	16	2	SOLID	0.015	0.025	0.335	66
11022	16	3	SOLID	0.015	0.025	0.356	88
11040	14	1	SOLID	0.015	0.025	0.240	46
11041	14	2	SOLID	0.015	0.025	0.382	88
11060	12	1	SOLID	0.015	0.025	0.274	64
11061	12	2	SOLID	0.015	0.025	0.438	123

NOTE: Materials and construction subject to change without notice. We reserve the right to supply compounds approved for plenum applications by NEC and/or UL.

** NOTE: Also available in a low capacitance 200°C construction. Other sizes and pair counts are available.

Please contact your sales office for availability and pricing.

COLOR CODE CHART

1 Pair	Black/Red.
2 Pair	Black/Red, White/Green.
3 Pair	Black/Red, Black/White, Black/Green.

U

OSHA Acceptable
Occupational Safety and Health Administration

UL LISTED

Custom Cable Corp.

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POWER LIMITED FIRE PROTECTIVE SIGNAL CABLE - SHIELDED 150°C PLENUM

(UL) FPLP - Also Classified New York City Certified Fire Alarm Cable - 300 Volt (Formally known as Local Laws 5)

Construction

Conductor:
- Fully annealed **solid** bare copper per ASTM B-3.

Insulation:
- Color coded fluorocopolymer. (PVDF or Halar)

Shield:
- 100% aluminum/polyester, 25% overlap, foil facing out.
- Stranded tinned copper drain wire.

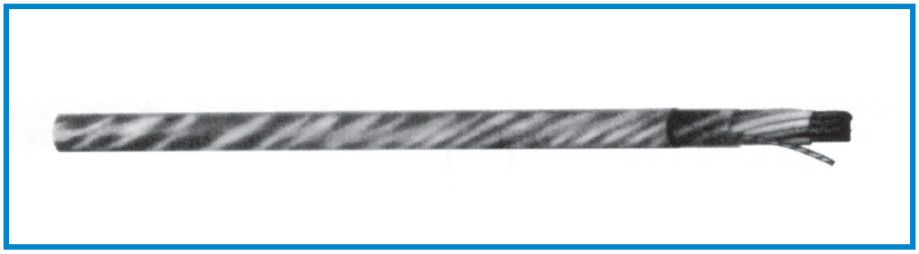
Jacket:
- Fluorocopolymer, **red** color, 150°C. (PVDF or Halar)
- Regular Capacitance.**

Applications:
- Inside/outside fire and burglar alarm systems.
- Smoke detection systems.
- Voice and digital communications systems.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.
- -40°C to +150°C.

Industry Approvals:
- UL Subject 910, Smoke and Flame Test.
- NEC Article 760.

Packaging:
- 1000 ft. spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11001S	18	1	SOLID	0.015	0.025	0.196	29
11002S	18	2	SOLID	0.015	0.025	0.303	55
11020S	16	1	SOLID	0.015	0.025	0.217	38
11021S	16	2	SOLID	0.015	0.025	0.335	68
11022S	16	3	SOLID	0.015	0.025	0.361	90
11040S	14	1	SOLID	0.015	0.025	0.242	50
11041S	14	2	SOLID	0.015	0.025	0.386	90
11060S	12	1	SOLID	0.015	0.025	0.276	68
11061S	12	2	SOLID	0.015	0.025	0.444	125s

*NOTE: Materials and construction subject to change without notice. We reserve the right to supply compounds approved for plenum applications by NEC and/or UL.

**NOTE: Also available in a low capacitance 200°C construction. Other sizes and pair counts are available.

Please contact your sales office for availability and pricing.

COLOR CODE CHART

1 Pair	Black/Red.
2 Pair	Black/Red, White/Green.
3 Pair	Black/Red, Black/White, Black/Green.

U

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TYPE CMP - AIR PLENUM - NEC ARTICLE 800-51(a)(f)

Construction

Conductor:
- Fully annealed solid bare copper per ASTM B-3.

Insulation:
- Low smoke-producing, low flame-spread approved compounds.

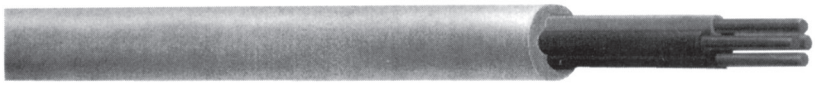
Jacket:
- Low smoke-producing, low flame-spread approved compounds.

Applications:
- Power limited circuits.
- Indoor/outdoor communication systems.
- Fire and burglar alarms.
- Energy management systems.
- Computer interfaces.
- Remote control equipment.
- Intercom and central station systems.

Features:
- Installation in air plenums without the use of conduit.
- Passes Steiner Tunnel Low Smoke and Flame Test.
- Outstanding oil and moisture resistance.
- Excellent electrical and mechanical properties.

Industry Approvals:
- UL listed for low smoke and fire characteristics per NEC Article 800-51 (a)(f).
- UL Subject 444, Communication and Telephone Cable, Type CMP.
- UL Subject 910, Smoke and Flame Test.
- ICEA S-80-576.
- CSA FT6.

Packaging:
- 500 ft, 1000 ft or bulk spools.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	NOM. JACKET THICKNESS	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	LBS/MFT
11105	24	4	0.100	0.099	10
11100	22	2	0.100	0.097	7
11102	22	4	0.100	0.112	13

* These measurements and weights are approximate and will vary slightly depending upon the fluorocopolymer insulation and jacket compounds used.

U

Certified
Canadian Standard Association

Listed
Subject 444
NEC Article 800

LISTED

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TELEPHONE CABLE

MULTI-PAIRED, OVERALL FOIL SHIELDED PLENUM CABLE, NEC TYPE CMP, c(UL)PCC

Construction

Conductor:
- Fully annealed stranded tinned copper to ASTM B-33.

Insulation:
- Premium grade color coded fluorocopolymer.
- Color Code: see chart below.

Shield:
- 100% aluminum/polyester foil, 25% overlap.
- Stranded tinned copper drain wire.

Jacket:
- Fluorocopolymer, Natural.
- Temperature Range: -40°C to +150°C.
- Sequential footage marked to facilitate installation.

Applications:
- EIA RS 232 circuits.
- Remote control circuits.
- Process Control and Instrumentation.
- Power Limited Control Circuits.
- Suggested voltage rating: 300 volts.

Industry Approvals:
- NEC Article 800 (UL: 150°C, 300V).
- c(UL) PCC FT6.

Features:
- Abrasion, chemical & water resistant jacket.

Packaging:
- 1000 ft reels.

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	STRAND	NOMINAL INSULATION THICKNESS (INCHES)		NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INSULATION	JACKET	INCHES	LBS/MFT
11590	22	1	7/30TC	0.006	0.010	0.107	11
11591	22	2	7/30TC	0.006	0.010	0.130	18
11592	22	3	7/30TC	0.006	0.010	0.153	24
11593	22	4	7/30TC	0.006	0.010	0.171	32
11594	22	6	7/30TC	0.006	0.010	0.177	45
11595	24	2	7/30TC	0.006	0.010	0.130	14
11596	24	3	7/30TC	0.006	0.010	0.152	19
11597	24	4	7/30TC	0.006	0.010	0.170	23
11598	24	6	7/30TC	0.006	0.010	0.200	32
11599	24	12.5	7/30TC	0.006	0.010	0.277	68

COLOR CODE CHART

No. of Pair	Color
1	Black & Yellow
2	Red & Violet
3	Dark Blue & Brown
4	Orange & Dark Green
5	Pink & Gray
6	Tan & White
7	Light Blue & Light Green
8	Red/White & White/Red
9	Orange/White & White/Orange
10	Yellow/White & White/Yellow
11	Gray/White & White/Gray
12	Blue/White & White/Blue
1C	Dark Green/Yellow

Passes UL 910 Test For Flame Propagation & Smoke Density
Underwriters Laboratories Inc.

FT6 Certified
Canadian Standard Association

Listed Type CMP

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MIL 16878D TYPE E - TEFLON® CABLE

MULTI CONDUCTOR CABLE - TYPE STJ
SHIELDED TFE TAPE JACKET 200°C 600 V

Construction

Conductor:
- Stranded silver plated copper conductors.

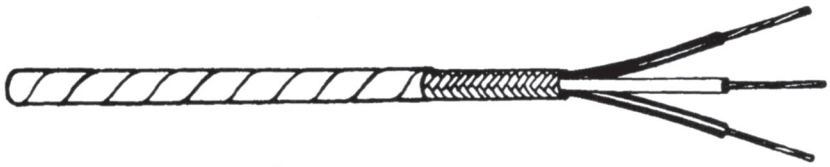
Insulation:
- Color coded insulation, with 0.010" type E extruded TFE Teflon® cabled.
- Color Code: See Chart #23.

Shield:
- Overall braided silver plated copper shield (90%).

Jacket:
- White TFE tape wrap.

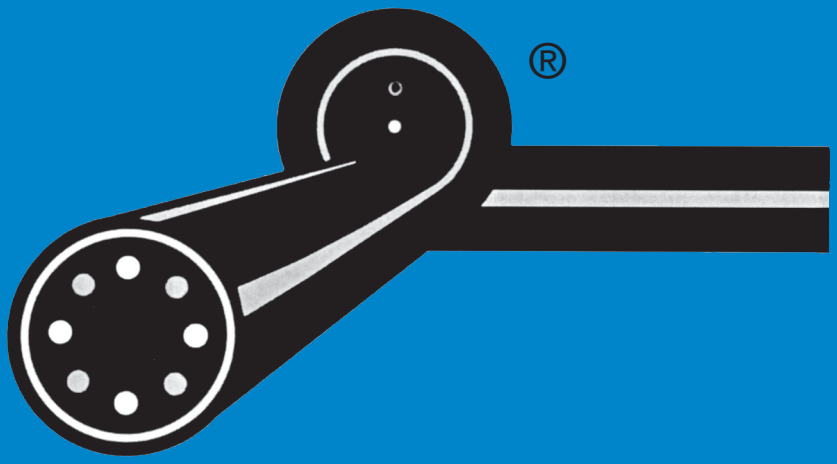
Temperature Rating:
- -65°C to +200°C.

Applications:
- Communication, control and alarms. A high temperature cable with resistance to acids, oils, flame, moisture, solvents and fungus.



CUSTOM CATALOG NUMBER	SIZE	NUMBER OF COND'S	STRAND	NOMINAL O.D.	NOMINAL WEIGHT
	AWG/MCM			INCHES	LBS/MFT
8111	24	1	19/36	0.085	9
8112	24	2	19/36	0.132	16
8113	24	3	19/36	0.138	19
8114	24	4	19/36	0.149	23
8121	22	1	19/34	0.090	11
8122	22	2	19/34	0.144	19
8123	22	3	19/34	0.148	24
8124	22	4	19/34	0.161	28
8131	20	1	19/32	0.099	14
8132	20	2	19/32	0.160	25
8133	20	3	19/32	0.169	31
8134	20	4	19/32	0.184	38
8141	18	1	19/30	0.110	18
8142	18	2	19/30	0.182	31
8143	18	3	19/30	0.191	42
8144	18	4	19/30	0.209	49
8151	16	1	19/29	0.120	21
8152	16	2	19/29	0.204	38
8153	16	3	19/29	0.213	49
8154	16	4	19/29	0.234	60
8161	14	1	19/27	0.135	26
8162	14	2	19/27	0.230	52
8163	14	3	19/27	0.245	68
8164	14	4	19/27	0.270	90
8171	12	1	19/25	0.162	28
8172	12	2	19/25	0.280	58
8173	12	3	19/25	0.297	79
8174	12	4	19/25	0.326	102

FIBER OPTICS

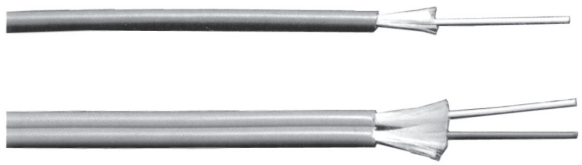


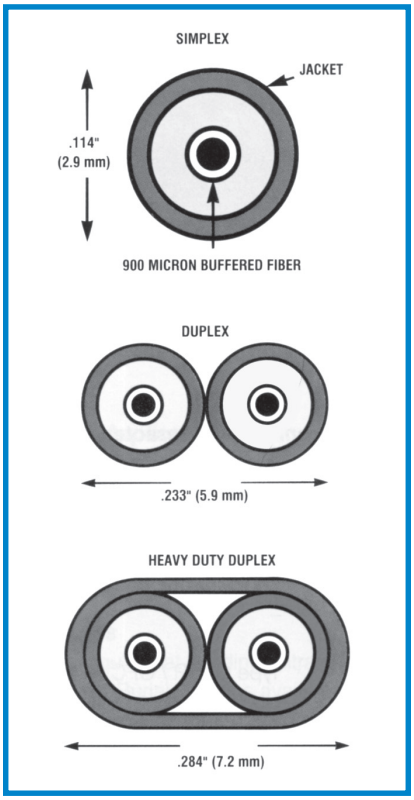
FIBER OPTIC CABLE — SIMPLEX & DUPLEX

UL TYPE OFNR / cUL OFN FT4
UL TYPE OFNP / cUL OFN FT6
LSZH

Recommended Applications

- Patch cables
- Short run office cabling
- Computer room cabling
- Other sizes available





CUSTOM CATALOG NUMBER	TYPE	FIBER COUNT	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
					SHORT TERM INCHES	LONG TERM INCHES	
RISER							
F10001(x)	Simplex	1	.114	6	1.7	1.1	90
F10002(x)	Duplex	2	.114 x .233	12	1.7	1.1	180
F10003(x)	HD Duplex	2	.166 x .284	21	2.5	1.7	180
PLENUM							
F10011(x)	Simplex	1	.114	6	1.7	1.1	90
F10012(x)	Duplex	2	.114 x .233	13	1.7	1.1	180
F10013(x)	HD Duplex	2	.148 x .266	19	2.2	1.5	180
LOW SMOKE ZERO HALOGEN							
F10021(x)	Simplex	1	.114	6	1.7	1.1	90
F10022(x)	Duplex	2	.114 x .233	13	1.7	1.1	180
F10023(x)	HD Duplex	2	.166 x .284	23	2.5	1.7	180

Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	20 Impacts w/1.0 N-m
Flexure	(EIA-455-104)	100 cycles min.
Min. Bend Radius	Long Term - No Load	10x Cable Diameter
Min. Bend Radius	Short Term - Load	15x Cable Diameter
Operating Temp	—	-20c to +70c
Storage Temp	—	-40c to +70c
Flame Resistance	UL 1666 (Riser)	Passed
Riser UL/cUL Rated	Type OFNR/OFN FT4	
Flame Resistance	NFPA 262 (Plenum)	Passed
Plenum UL/cUL Rated	Type OFNR/OFN FT6	
LSZH		

V

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATIOR (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.50/1.25	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/1500	3.50/1.25	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.80/0.50	-/5000	-/5000	-/10,000

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FIBER OPTIC CABLE — INDOOR DISTRIBUTION CABLE

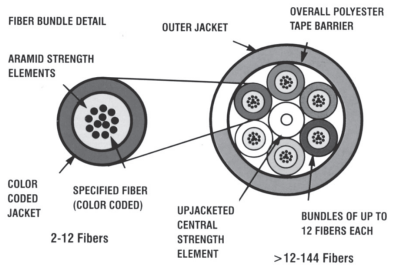
INDOOR RISER UL/cUL TYPE OFNR / OFN FT4
INDOORPLENUM UL/cUL TYPE OFNP / OFN FT6

Recommended Applications

- Riser and Plenum Cabling
- Office Cabling
- Computer room cabling

Product Features

- 900 ?m tight buffered fibers color coded for easy termination
- Flame retardant
- UL listed for code compliance
- MHSA approved cables are available - riser



CUSTOM CATALOG NUMBER	FIBER COUNT	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
				SHORT TERM INCHES	LONG TERM INCHES	
RISER						
F20002(x)	2	0.184	13	2.8	1.8	180
F20004(x)	4	0.200	16	3.0	2.0	180
F20006(x)	6	0.220	19	3.3	2.2	270
F20008(x)	8	0.235	22	3.5	2.4	270
F20012(x)	12	0.255	27	3.8	2.6	300
F20024(x)	24	0.496	83	7.4	5.0	960
F20036(x)	36	0.644	137	9.7	6.4	1440
F20048(x)	48	0.627	131	9.4	6.3	945
F20072(x)	72	0.750	195	11.3	7.5	1350
F20096(x)	96	0.895	290	13.4	9.0	1983
F20144(x)	144	0.964	314	14.5	9.6	2745
PLENUM						
F21002(x)	2	0.184	13	2.8	1.8	180
F21004(x)	4	0.174	13	2.8	1.8	195
F21006(x)	6	0.190	15	3.0	2.0	270
F21008(x)	8	0.222	19	3.3	2.2	270
F21012(x)	12	0.225	22	3.4	2.3	300
F21024(x)	24	0.493	89	7.5	5.0	1263
F21036(x)	36	0.604	136	9.2	6.1	1913
F21048(x)	48	0.615	134	9.2	6.2	1245
F21072(x)	72	0.784	217	11.8	7.8	2093
F21096(x)	96	0.961	309	14.4	9.6	3285
F21144(x)	144	1.037	365	15.6	10.4	3645

Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Flexure	(EIA-455-104)	2000 cycles min.
Min. Bend Radius	Long Term - No Load	10x Cable Diameter
Min. Bend Radius	Short Term - Load	15x Cable Diameter
Operating Temp.	—	-20°C to +70°C
Storage Temp.	—	-40°C to +80°C
Flame Resistance	UL 1666 (Riser)	Passed
Riser UL/cUL Rated	Type OFNR/OFN FT4	
Flame Resistance	NFPA 262 (Plenum)	Passed
Plenum UL/cUL Rated	Type OFNR/OFN FT6	

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATION (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.50/1.25	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/500	3.50/1.25	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.80/0.50	-/5000	-/5000	-/10,000

V

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FIBER OPTIC CABLE — INDOOR / OUTDOOR RISER

LOOSE TUBE CABLE & ARMORED CABLE

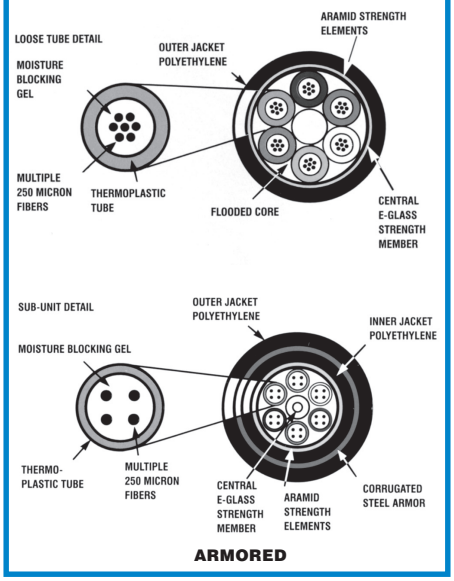
Recommended Applications

- Indoor/Outdoor Building Interconnections
- Telecommunications and Data Trunk
- Long Haul Networking (1)
- Direct Burial

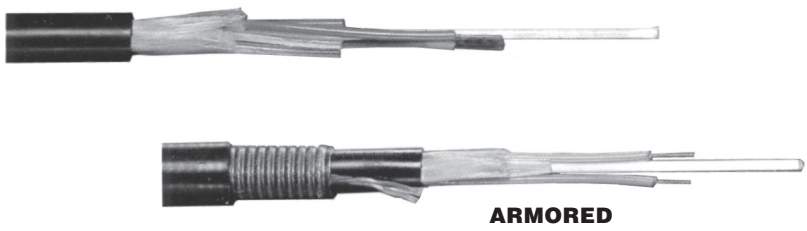
Product Features

- No splicing required at building entrance
- Available w/Zero-Halogen Jacket
- Breakout Kits Available
- Fully Waterblocked

(1) Armored Cable Only



ARMORED


ARMORED

CUSTOM CATALOG NUMBER	FIBER COUNT	FIBER PER TUBE	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
					SHORT TERM INCHES	LONG TERM INCHES	
INDOOR/OUTDOOR							
F30006(x)	6	6	0.380	64	7.6	5.7	600
F30012(x)	12	6	0.380	64	7.6	5.7	600
F30024(x)	24	6	0.380	64	7.6	5.7	600
F30036(x)	36	6	0.380	65	7.6	5.7	600
F30048(x)	48	12	0.480	88	9.6	7.2	600
F30072(x)	72	12	0.480	88	9.6	7.2	600
F30096(x)	96	12	0.547	113	10.9	8.2	600
F30144(x)	144	12	0.700	185	14.0	10.5	600
INDOOR/OUTDOOR DIRECT BURIAL/ARMORED							
F31006(x)	6	6	0.540	141	10.8	8.1	600
F31012(x)	12	6	0.540	141	10.8	8.1	600
F31024(x)	24	6	0.540	141	10.8	8.1	600
F31036(x)	36	6	0.540	141	10.8	8.1	600
F31048(x)	48	12	0.660	174	13.2	9.9	600
F31072(x)	72	12	0.660	172	13.2	9.9	600
F31096(x)	96	12	0.700	206	14.0	10.5	600
F31144(x)	144	12	0.880	302	17.6	13.2	600

Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Min. Bend Radius	Long Term - No Load	15x Cable Diameter
Min. Bend Radius	Short Term - Load	20x Cable Diameter
Operating Temp.	—	-40c to +70c
Storage Temp.	—	-40c to +80c
Riser UL/cUL Rated	Type OFNR/OFN FT4	
Flame Resistance	UL 1666	Passed

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATIOR (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.25/1.20	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/500	3.00/1.00	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.40/0.30	-/5000	-/5000	-/10,000

V

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FIBER OPTIC CABLE INDOOR/OUTDOOR - PLENUM

UL/cUL TYPE OFNP / OFN FT6

Recommended Applications

- Campus Backbones
- Interbuilding Installations
- Data Centers
- High Density Cable Trays

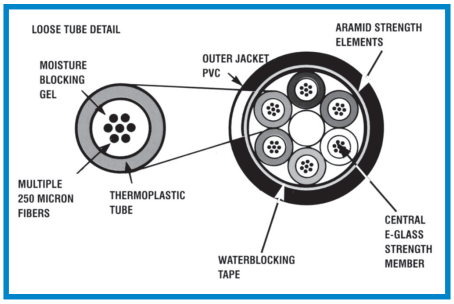
Product Features

- 2 to 144 Fiber
- Small diameter and bend radius facilitate installation in tight spaces
- Fibers and subunits are color coded for ease of identification
- All dielectric construction eliminates the need for grounding fibers grouped into sets of 12 for maximum density

Options

- Available in 50?m, 62.5?m, single-mode, and hybrid construction
- Available in colored jackets or indoor only installation

CUSTOM CATALOG NUMBER	FIBER COUNT	FIBER PER TUBE	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
					SHORT TERM INCHES	LONG TERM INCHES	
Indoor/Outdoor UL/cUL Type OFNP/OFN FT6							
F40006(x)	6	6	0.265	33	5.3	4.0	320
F40012(x)	12	12	0.265	33	5.3	4.0	320
F40024(x)	24	12	0.359	47	7.2	5.4	405
F40036(x)	36	12	0.359	47	7.2	5.4	405
F40048(x)	48	12	0.359	48	7.2	5.4	405
F40072(x)	72	12	0.429	71	8.6	6.4	585
F40096(x)	96	12	0.501	105	10.0	7.5	903
F40144(x)	144	12	0.665	189	13.3	10.0	1263



Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Flexure	(EIA-455-104)	2000 cycles min.
Min. Bend Radius	Long Term - No Load	15x Cable Diameter
Min. Bend Radius	Short Term - Load	20x Cable Diameter
Operating Temp.	—	-40c to +70c
Storage Temp.	—	-40c to +80c
UL/cUL Rated	Type OFNP/OFN FT6	
Flame Resistance	NFPA 262 (Plenum)	Passed

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATION (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.50/1.25	300/2000	300/550	351300
50/125 MM	MM2	850/1300	500/500	510/500	3.50/1.25	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.80/0.50	-/5000	-/5000	-/10,000

V

FIBER OPTIC CABLE — OUTDOOR DIRECT BURIAL

LOOSE TUBE CABLE

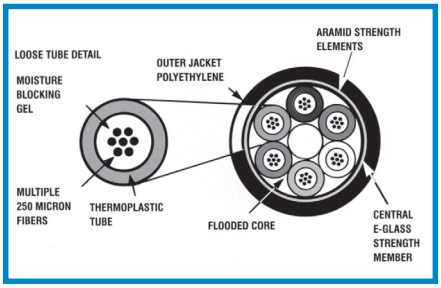
Recommended Applications

- Building Interconnections
- Telecommunications and data trunk
- Long haul networking
- Ducts between buildings and aerial lashing
- Applications requiring good ozone, moisture, weather resistance

Product Features

- All dialetric central strength member
- Excellent attenuation performance
- Waterblocked gel for moisture protection
- Polyethylene jacket for weather and UV protection
- Breakout kits available
- Fully waterblocked

CUSTOM CATALOG NUMBER	FIBER COUNT	FIBER PER TUBE	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
					SHORT TERM INCHES	LONG TERM INCHES	
Outdoor Direct Burial							
F50006(x)	6	6	0.375	45	7.5	5.6	600
F50012(x)	12	12	0.375	46	7.5	5.6	600
F50024(x)	24	12	0.375	46	7.5	5.6	600
F50036(x)	36	12	0.375	48	7.5	5.6	600
F50048(x)	48	12	0.475	71	9.5	7.1	600
F50072(x)	72	12	0.475	72	9.5	7.1	600
F50096(x)	96	12	0.542	96	10.8	8.1	600
F50144(x)	144	12	0.695	151	13.9	10.4	600
F50216(x)	216	12	0.710	150	14.2	10.7	600



Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Min. Bend Radius	Long Term - No Load	10x Cable Diameter
Min. Bend Radius	Short Term - Load	15x Cable Diameter
Operating Temp.	—	-20c to +70c
Storage Temp.	—	-40c to +70c

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATIOR (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.25/1.0	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/500	3.0/1.0	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.40/0.3	-/5000	-/5000	-/10,000

V

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OUTDOOR DIRECT BURIAL - ARMORED

Recommended Applications

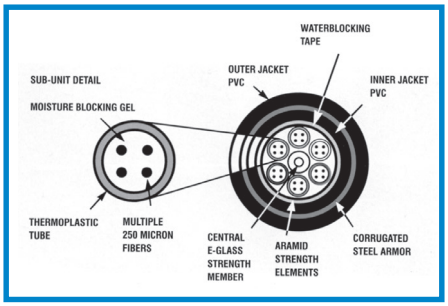
- Building Interconnections
- Telecommunications and Data Trunk
- Long Haul Networking
- Direct Burial
- Applications requiring good moisture, weather resistance[1]

Product Features

- Excellent attenuation performance
- Waterblocked gel for moisture protection
- Polyethylene jacket for weather and UV protection
- Breakout kits available
- Corrugated Steel Tape
- Rodent Resistant
- Dry water blocking available

[1] Armored Cable Only

CUSTOM CATALOG NUMBER	FIBER COUNT	FIBER PER TUBE	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
					SHORT TERM INCHES	LONG TERM INCHES	
Outdoor Direct Burial — Armored							
F60006(x)	6	6	0.530	103	10.6	8.0	600
F60012(x)	12	6	0.530	103	10.6	8.0	600
F60024(x)	24	6	0.530	104	10.6	8.0	600
F60036(x)	36	6	0.530	105	10.6	8.0	600
F60048(x)	48	12	0.610	137	12.2	9.2	600
F60072(x)	72	12	0.610	138	12.2	9.2	600
F60096(x)	96	12	0.690	170	13.8	10.4	600
F60144(x)	144	12	0.870	245	17.4	13.1	600
F60216(x)	216	12	0.870	243	17.4	13.1	600



Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Min Bend Radius	Long Term - No Load	15x Cable Diameter
Min Bend Radius	Short Term - Load	20x Cable Diameter
Operating Temp	—	-40c to +70c
Storage Temp	—	-50c to +80c

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATIOR (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.25/1.0	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/500	3.0/1.0	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.40/0.30	-/5000	-/5000	-/10,000

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FIBER OPTIC CABLE — INDUSTRIAL ARMORED CABLE

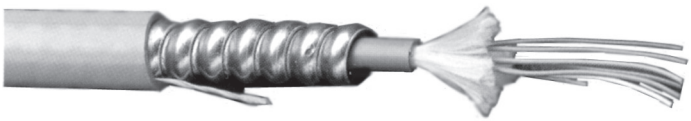
HEAVY DUTY INTERLOCK ARMOR
RISER UL/cUL TYPE OFCR/OFC FT4 / PLENUM UL/cUL TYPE OFCP/OFC FT6

Recommended Applications

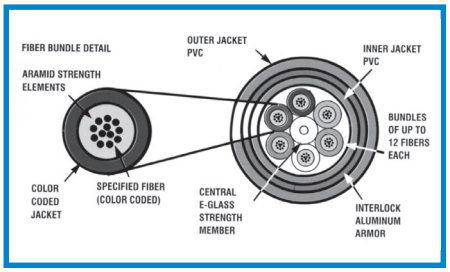
- Industrial Environment
- Rugged Installation
- Manufacturing Plants
- Mining Shafts
- Telecommunications and Data Trunk

Product Features

- Excellent mechanical protect
- Heavy Duty construction
- Eliminates need for innerduct
- Versions available for plenum and outside plant
- Interlock Steel Armor



CUSTOM CATALOG NUMBER	FIBER COUNT	OUTSIDE DIAM. IN.	WEIGHT LBS./M	MIN. BEND RADIUS		MAX. LOAD INSTALLATION LBS.
				SHORT TERM INCHES	LONG TERM INCHES	
RISER						
F70006(x)	6	0.595	248	11.9	8.9	600
F70012(x)	12	0.595	254	11.9	8.9	600
F70024(x)	24	0.695	329	13.9	10.4	600
PLENUM						
F71006(x)	6	0.531	220	10.6	8.0	600
F71012(x)	12	0.531	226	10.6	8.0	600
F71024(x)	24	0.631	297	12.6	9.5	600



Mechanical, Environmental & Flame Characteristics

Crush Resistance	(EIA-455-41)	200N/cm
Impact Resistance	(EIA-455-25)	2000 Impacts w/1.6 N-m
Min. Bend Radius	Long Term - No Load	15x Cable Diameter
Min. Bend Radius	Short Term - Load	20x Cable Diameter
Operating Temp.	—	-20°C to +70°C
Storage Temp.	—	-40°C to +70°C
Flame Resistance	UL 1666 (Riser)	Passed
Riser UL/cUL Rated	Type OFCR/OFC FT4	
Flame Resistance	MFPA 262 (Plenum)	Passed
Plenum UL/cUL Rated	Type OFCP/OFC FT6	

V

GLASS TYPE	P/N CODE (X)	OPERATING WAVELENGTH	MIN OFL BANDWIDTH (MHz-km)	MIN LASER BANDWIDTH (MHz-km)	MAX. ATTENUATIOR (db/km)	100 MEGABIT FAST ETHERNET LINK LENGTH (Meters S/L)	1 GIGABIT ETHERNET LINK LENGTH (Meters S/L)	10 GIGABIT ETHERNET LINK LENGTH (Meters S/L)
62.5/125 MM	MM1	850/1300	200/500	220/500	3.50/1.25	300/2000	300/550	35/300
50/125 MM	MM2	850/1300	500/500	510/500	3.5/1.25	300/2000	600/600	85/300
SingleMode	SM	1310/1550	—	—	0.80/0.50	-/5000	-/5000	-/10,000

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THERMOCOUPLE EXTENSION WIRE

SERVED WIRE ARMOR

Construction

Construction Specifications:

- Single pair
- Single pair shielded
- Multiple pair individual & overall shield
- Multiple pair overall shield

Unshielded/Shielded Pair:

- Conductor: **Solid Alloy wire.**
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Color Code: ANSI standard
- Lay of Twist: 2" nominal
- Shield: 1.27 mils aluminum-Mylar* type shield and an 18 gauge solid tinned copper drain wire.
- Inner & Outer Jacket: 35 mils
- Armor: Multiple strands of served soft annealed steel wire.

Multipair Indiv/Overall Shield & Multipair Overall Shield:

- Conductor: **Solid Alloy wire.**
- Primary Insulation: per UL 13, 105°C PVC.
- Color Code: ANSI standard
- Group Identification: Each pair numbered.
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge solid tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: FR PVC, ANSI color coded, thickness depending on cable size.
- Armor: Multiple strands of soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

* DuPont Trademark

** Available in other AWG sizes.

PRODUCT DIMENSIONS

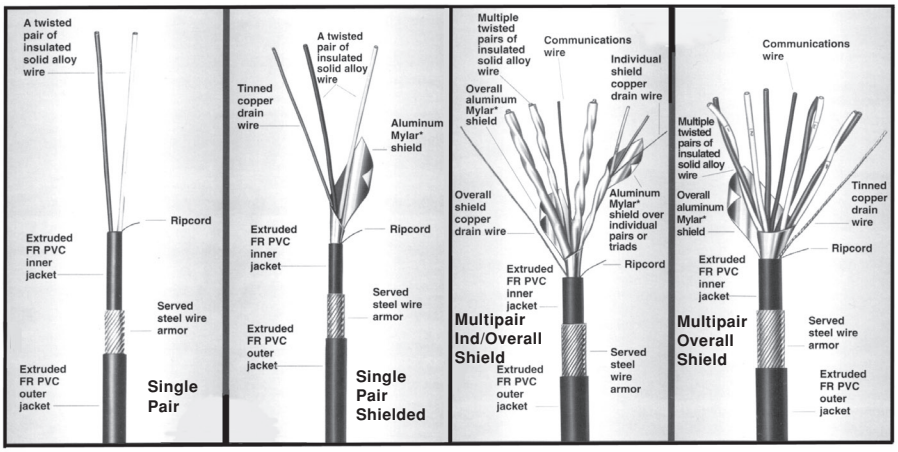
CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum INCHES	Minimum Bend Radius INCHES	Maximum Pulling Tension LBS.	NET WEIGHT LBS./MFT
SHIELDED PAIR / OVERALL SHIELD (SPOS)						
54200(x)	16	1	0.349/0.397	4-3/4	141	108.0
54201(x)	16	1	0.351/0.339	4-3/4	154	111.6
54204(x)	20	4	0.606/0.645	7-1/8	400	275.0
54208(x)	20	8	0.716/0.753	9-1/8	626	372.0
54212(x)	20	12	0.903/0.965	11-5/8	779	593.0
54216(x)	20	16	0.970/1.034	12-1/2	1037	682.0
54224(x)	20	24	1.160/1.225	14-3/4	1313	1010.0
54236(x)	20	36	1.322/1.391	16-3/8	1651	1300.0
OVERALL SHIELD						
54104(x)	20	4	0.516/0.551	6-3/8	348	186.0
54108(x)	20	8	0.667/0.705	8-1/2	478	328.0
54112(x)	20	12	0.746/0.784	9-1/2	664	402.0
54116(x)	20	16	0.893/0.955	11-1/2	756	591.0
54124(x)	20	24	1.004/1.067	12-7/8	1107	733.0
54136(x)	20	36	1.223/1.299	15-5/8	1427	1133.0

ALLOY IDENTIFICATION

ANSI Type	Alloy Identification		ANSI Color Code			Temperature Range °C	Limits of Error
	Positive Wire	Negative Wire	Positive Wire	Negative Wire	Overall Jacket		
EX	Chromel	Constantan	Purple	Red	Purple	0 to +200°C	±1.7°C
JX	Iron	Constantan	White	Red	Black	0 to +200°C	±2.2°C
KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200°C	±2.2°C
SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200°C	±5.0°C
TX	Copper	Constantan	Blue	Red	Blue	-60 to +100°C	±1.0°C

Application

This product is UL Listed as power limited tray cable for cable tray installations in NEC Class I, Division 2 and with restrictions in Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops. The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.



UL®

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ARMORED ELECTRONIC INSTRUMENT WIRE

SINGLE PAIR (SERVED WIRE ARMOR)
SINGLE TRIAD (SERVED WIRE ARMOR)

Construction

Construction Specifications: Single Pair SWA

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 2
- Color Code: Black and White.
- Lay of Twist: 2" nominal.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Single Triad SWA

- Conductor: **16 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 3
- Color Code: Black, White and Red.
- Lay of Twist: 2" nominal.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Application

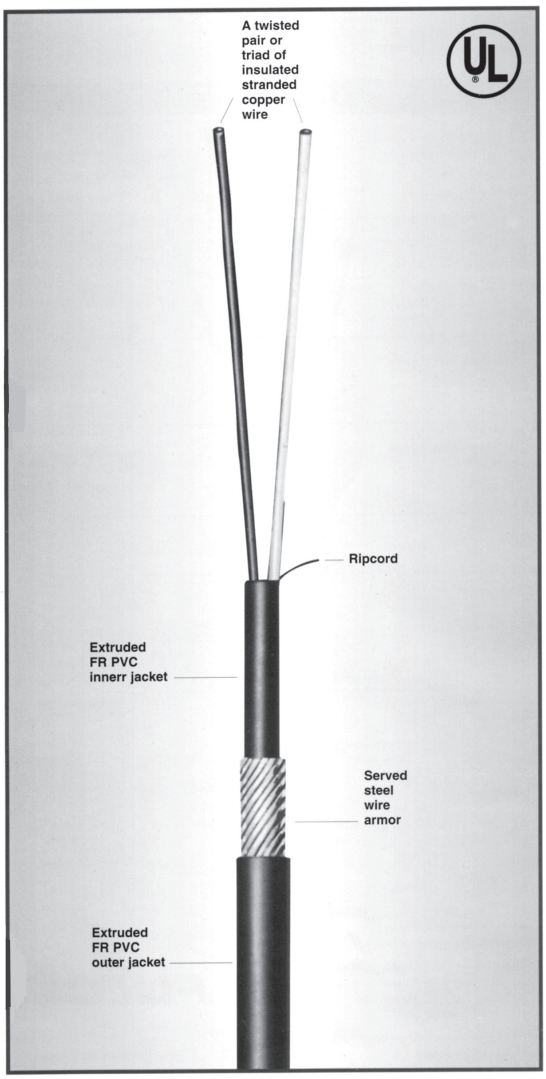
- This product is UL listed as power limited tray cable. Under NEC 725 with a 300 Volt rating, it can be installed in Class I, Division 2 and Class II, Division 2 hazardous areas. Some restrictions apply in Class II, Division 2 areas. The served wire armor offers cut-through resistance and is suited for vertical drops.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum	Minimum Bend Radius	Maximum Pulling Tension	NET WEIGHT
	AWG/MCM		INCHES	INCHES	LBS.	LBS./MFT
SWA 4461	16	(1 pair)	.367/.415	5	41	112.0
SWA 4561	16	(1 triad)	.381/.430	5-1/4	62	127.0

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

* Also available in 600 Volt configuration.
** Product has 20 mil jacket and is not UL listed.
*** Also available in other AWG sizes.



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ARMORED ELECTRONIC INSTRUMENT WIRE

SHIELDED SINGLE PAIR (SERVED WIRE ARMOR)
SHIELDED SINGLE TRIAD (SERVED WIRE ARMOR)

Construction

Construction Specifications: Single Pair Shielded

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 2
- Color Code: Black and White.
- Lay of Twist: 2" nominal.
- Shield: 1.27 mils aluminum-Mylar* tape shield and an 18 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Single Triad Shielded

- Conductor: 16 gauge 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- Number of conductors per group: 3
- Color Code: Black, White and Red.
- Lay of Twist: 2" nominal.
- Shield: 1.27 mils aluminum-Mylar* tape shield and an 18 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: - 35 mils nominal black, FR PVC.
- Armor: Multiple strands of served soft annealed steel wire.

Application

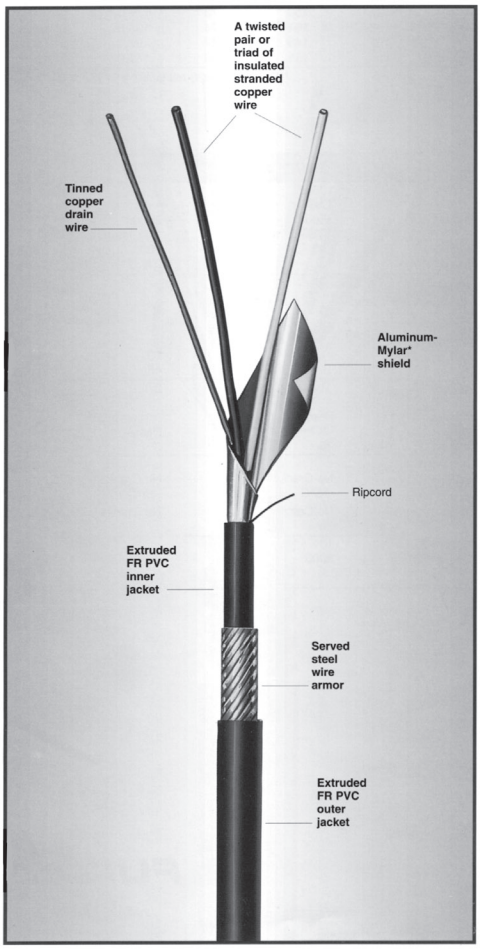
- This product is UL listed as power limited tray cable for cable tray installations in NEC Class I, Division 2 and with restrictions in Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut through resistance and is suited for vertical drops.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG/MCM	NUMBER OF PAIRS	Overall Diameter Nominal/Maximum INCHES	Minimum Bend Radius INCHES	Maximum Pulling Tension LBS.	NET WEIGHT LBS./MFT
SWA 4460	16	(1 pair)	.365/.413	5	158	117.0
SWA 4560	16	(1 triad)	.379/.428	5-1/4	164	133.0

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.
Also available in 600 Volt configuration.

* DuPont Trademark
** Product has 20 mil jacket and is not UL listed.
*** Also available in other AWG sizes.



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SHIELDED ARMORED ELECTRONIC INSTRUMENT CABLE

MULTIPLE PAIRS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)
MULTIPLE TRIADS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)

Construction

Construction Specifications: Multiple Shielded Pairs SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 2
- Color Code: Black and White.
- Group ID: Each pair numbered.
- Lay of Twist: 2”
- Pair Shield: 100% coverage 1.77 mils aluminum-Mylar* tape and 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 and 8 pair	50 mils
10, 12 and 16 pair	60 mils
24, 36 and 50 pair	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

Multiple Shielded Triads SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 3
- Color Code: Black, White and Red.
- Group ID: Each triad numbered.
- Lay of Twist: 2”
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 triples	50 mils
12 and 16 triples	60 mils
36 triples	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG	No. of Pairs	No. of Triads	Overall Diameter Nominal/ Maximum Inches	Minimum Bend Radius Inches	Maximum Pulling Tension lbs.	Net Weight lbs./mft.
SWA 4404	20	4		0.627/0.663	8	409	287.2
SWA 4408	20	8		0.740/0.778	9-3/8	645	388.2
SWA 4412	20	12		0.935/0.996	12	792	620.8
SWA 4416	20	16		1.006/1.069	12-7/8	1057	715.0
SWA 4424	20	24		1.245/1.311	15-3/4	1354	1111.9
SWA 4436	20	36		1.373/1.444	17-3/8	1610	1359.7
SWA 4504	20		4	0.682/0.718	8-5/8	474	331.5
SWA 4512	20		12	1.035/1.098	13-1/4	1090	742.6
SWA 4514	20		16	1.159/1.215	14-5/8	1271	997.7

Application

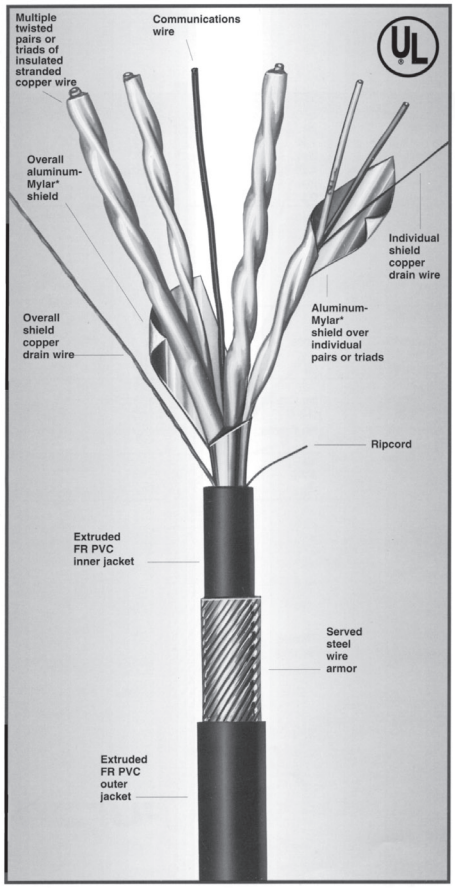
This product is UL listed as power limited tray cable for cable tray installation in NEC Class I, Division 2 and Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops.

The specifications listed above are subject to change without notice. In any change, the product’s performance will remain the same, or be improved.

* DuPont Trademark

** Also available in 600 Volt configuration.

*** Also available in other AWG sizes.



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Construction

Construction Specifications:
Multiple Shielded Pairs SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 2
- Color Code: Black and White.
- Group ID: Each pair numbered.
- Lay of Twist: 2"
- Pair Shield: 100% coverage 1.77 mils aluminum-Mylar* tape and 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 and 8 pair	50 mils
10, 12 and 16 pair	60 mils
24, 36 and 50 pair	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

Multiple Shielded Triads SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
- Primary Insulation: 15 mils nominal, 105°C PVC.
- No. of conductors per group: 3
- Color Code: Black, White and Red.
- Group ID: Each triad numbered.
- Lay of Twist: 2"
- Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar* tape and a 22 gauge 7 strand tinned copper drain wire.
- Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar* tape shield and a 20 gauge 7 strand tinned copper drain wire.
- Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:

CABLE SIZE	JACKET
4 triples	50 mils
12 and 16 triples	60 mils
36 triples	70 mils

- Armor: Multiple strands of served soft annealed steel wire.
- Communications Wire: 22 gauge copper. Color coded orange.

*Available in other AWG sizes.

PRODUCT DIMENSIONS

CUSTOM CATALOG NUMBER	SIZE AWG	No. of Pairs	No. of Triads	Overall Diameter Nominal/ Maximum Inches	Minimum Bend Radius Inches	Maximum Pulling Tension lbs.	Net Weight lbs./mft.
SWA 3804	20	4		0.597/0.632	7-5/8	372	261.4
SWA 3808	20	8		0.690/0.727	8-3/4	558	342.1
SWA 3812	20	12		0.773/0.881	9-3/4	676	420.6
SWA 3816	20	16		0.925/0.986	11-7/8	769	618.8
SWA 3824	20	24		1.042/1.105	13-3/8	1127	769.6
SWA 3836	20	36		1.229/1.294	15-5/8	1426	1148.0
SWA 3904	20		4	0.665/0.701	8-1/2	438	311.3
SWA 3912	20		12	1.006/1.109	13-3/8	1008	689.6
SWA 3914	20		16	1.088/1.151	13-7/8	1168	798.7

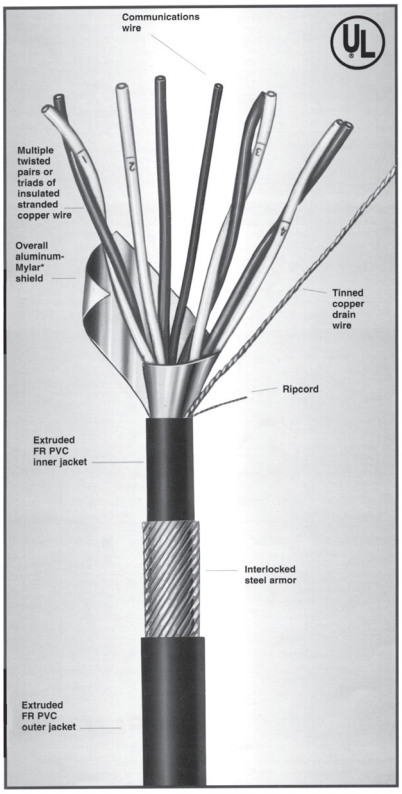
Application

This product is UL listed as power limited tray cable for cable tray installation in NEC Class I, Division 2 and Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops.

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

Also available in 600 Volt configuration.
Available in other AWG sizes.

*DuPont Trademark



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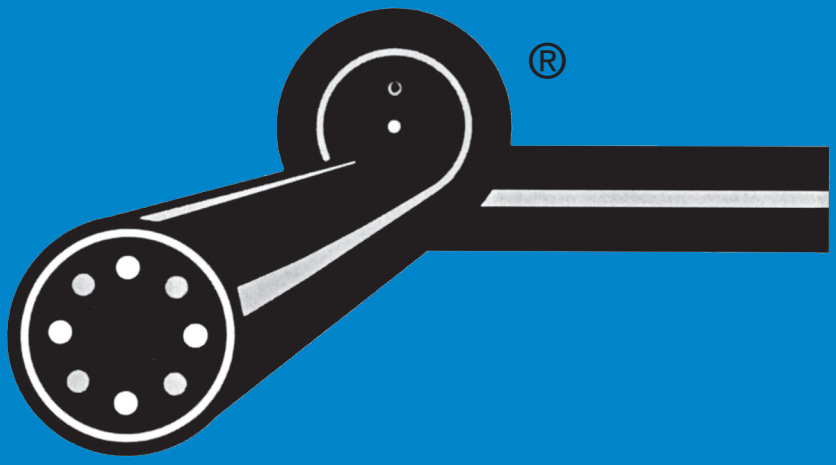
COLOR CODE CHARTS

CC



COLOR CODE CHARTS

CC

Color Code Chart 1

No. of Cond.	Color	No. of Cond.	Color
1	Black	7	Orange
2	White	8	Yellow
3	Red	9	Violet
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

Color Code Chart 2

No. of Cond.	Color	No. of Cond.	Color
1	Black	31	Green/Black/Orange
2	White	32	Orange/Black/Green
3	Red	33	Blue/White/Orange
4	Green	34	Black/White/Orange
5	Orange	35	White/Red/Orange
6	Blue	36	Orange/White/Blue
7	White/Black	37	White/Red/Blue
8	Red/Black	38	Black/White/Green
9	Green/Black	39	White/Black/Green
10	Orange/Black	40	Red/White/Green
11	Blue/Black	41	Green/White/Blue
12	Black/White	42	Orange/Red/Green
13	Red/White	43	Blue/Red/Green
14	Green/White	44	Black/White/Blue
15	Blue/White	45	White/Black/Blue
16	Black/Red	46	Red/White/Blue
17	White/Red	47	Green/Orange/Red
18	Orange/Red	48	Orange/Red/Blue
19	Blue/Red	49	Blue/Red/Orange
20	Red/Green	50	Black/Orange/Red
21	Orange/Green	51	White/Black/Orange
22	Black/White/Red	52	Red/Orange/Black
23	White/Black/Red	53	Green/Red/Blue
24	Red/Black/White	54	Orange/Black/Blue
25	Green/Black/White	55	Blue/Black/Orange
26	Orange/Black/White	56	Black/Orange/Green
27	Blue/Black/White	57	White/Orange/Green
28	Black/Red/Green	58	Red/Orange/Green
29	White/Red/Green	59	Green/Black/Blue
30	Red/Black/Green	60	Orange/Green/Blue

Color Code Chart 3

No. of Cond.	Color	No. of Cond.	Color
1	Black	3	White
2	Red	4	Green

Color Code Chart 4

No. of Cond.	Color	No. of Cond.	Color
1	Black	7	Brown
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Gray
5	Orange	11	Pink
6	Blue	12	Tan

Color Code Chart 5

No. of Cond.	Color	No. of Cond.	Color
1	Black	11	White/Black
2	White	12	White/Red
3	Red	13	White/Green
4	Green	14	White/Yellow
5	Yellow	15	White/Blue
6	Blue	16	White/Brown
7	Brown	17	White/Purple
8	Orange	18	White/Slate
9	Slate	19	Black/Red
10	Purple	20	Black/Yellow

Color Code Chart 6

No. of Cond.	Color	No. of Cond.	Color
1	Black	3	Red
2	Natural	4	Green

Color Code Chart 7

No. of Cond.	Color	No. of Cond.	Color
1	Black	4	Green
2	Red	5	Yellow
3	White	6	Blue

Color Code Chart 8

No. of Cond.	Color	No. of Cond.	Color
1	Black	11	White/Black
2	White	12	White/Red
3	Red	13	White/Green
4	Green	14	White/Yellow
5	Blue	15	White/Blue
6	Brown	16	White/Brown
7	Yellow	17	White/Purple
8	Orange	18	White/Gray
9	Gray	19	Black/Red
10	Purple	20	Black/Yellow

Color Code Chart 9

No. of Pairs	Color	No. of Pairs	Color
1	Black paired with Red	20	White paired with Yellow
2	Black paired with White	21	White paired with Brown
3	Black paired with Green	22	White paired with Orange
4	Black paired with Blue	23	Blue paired with Yellow
5	Black paired with Yellow	24	Blue paired with Brown
6	Black paired with Brown	25	Blue paired with Orange
7	Black paired with Orange	26	Brown paired with Yellow
8	Red paired with White	27	Brown paired with Orange
9	Red paired with Green	28	Orange paired with Yellow
10	Red paired with Blue	29	Purple paired with Orange
11	Red paired with Yellow	30	Purple paired with Red
12	Red paired with Brown	31	Purple paired with White
13	Red paired with Orange	32	Purple paired with Dark Green
14	Green paired with White	33	Purple paired with Light Blue
15	Green paired with Blue	34	Purple paired with Yellow
16	Green paired with Yellow	35	Purple paired with Brown
17	Green paired with Brown	36	Purple paired with Black
18	Green paired with Orange	37	Gray paired with White
19	White paired with Blue		

Color Code Chart 10

No. of Pairs	Color
1	Blue paired with White
2	Orange paired with White
3	Green paired with White
4	Brown paired with White
5	Gray paired with White
6	Blue/White striped paired with White
7	Blue/Orange striped paired with White
8	Blue/Green striped paired with White
9	Blue/Brown striped paired with White
10	Blue/Gray striped paired with White
11	Orange/White striped paired with White
12	Orange/Green striped paired with White
13	Orange/Brown striped paired with White
14	Orange/Gray striped paired with White
15	Green/White striped paired with White
16	Green/Brown striped paired with White
17	Green/Gray striped paired with White
18	Brown/White striped paired with White
19	Brown/Gray striped paired with White
20	Gray/White striped paired with White
21	Blue paired with Red
22	Orange paired with Red
23	Green paired with Red
24	Brown paired with Red
25	Gray paired with Red
26	Blue/White striped paired with Red
27	Blue/Orange striped paired with Red
28	Blue/Green striped paired with Red
29	Blue/Brown striped paired with Red
30	Blue/Gray striped paired with Red
31	Orange/White striped paired with Red
32	Orange/Green striped paired with Red
33	Orange/Brown striped paired with Red
34	Orange/Gray striped paired with Red
35	Green/White striped paired with Red
36	Green/Brown striped paired with Red
37	Green/Gray striped paired with Red
38	Brown/White striped paired with Red
39	Brown/Gray striped paired with Red
40	Gray/White striped paired with Red
41	Blue paired with Black
42	Orange paired with Black
43	Green paired with Black
44	Brown paired with Black
45	Gray paired with Black
46	Blue/White striped paired with Black
47	Blue/Orange striped paired with Black
48	Blue/Green striped paired with Black
49	Blue/Brown striped paired with Black
50	Blue/Gray striped paired with Black
51	Orange/White striped paired with Black

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COLOR CODE CHARTS

Color Code Chart 11

No. of Pairs	Color	No. of Pairs	Color
1	Red/Black	2	Green/White

Color Code Chart 12

No. of Cond.	Color	No. of Cond.	Color
1	Black	16	Black/Red
2	White	17	White/Red
3	Red	18	Orange/Red
4	Green	19	Blue/Red
5	Orange	20	Red/Green
6	Blue	21	Orange/Green
7	White/Black	22	Black/White/Red
8	Red/Black	23	White/Black/Red
9	Green/Black	24	Red/Black/Green
10	Orange/Black	25	Green/Black/Red
11	Blue/Black	26	White/Black/Orange
12	Black/White	27	Blue/Black/White
13	Red/White	28	Black/Red/Green
14	Green/White	29	White/Red/Green
15	Blue/White	30	Red/Black/Green

Color Code Chart 13

No. of Pairs	Color	No. of Pairs	Color
1	White-Blue Stripe Blue-White Stripe	14	Black-Brown Stripe Brown-Black Stripe
2	White-Orange Stripe Orange-White Stripe	15	Black-Gray Stripe Gray-Black Stripe
3	White-Green Stripe Green-White Stripe	16	Yellow-Blue Stripe Blue-Yellow Stripe
4	White-Brown Stripe Brown-White Stripe	17	Yellow-Orange Stripe Orange-Yellow Stripe
5	White-Gray Stripe Gray-White Stripe	18	Yellow-Green Stripe Green-Yellow Stripe
6	Red-Blue Stripe Blue-Red Stripe	19	Yellow-Brown Stripe Brown-Yellow Stripe
7	Red-Orange Stripe Orange-Red Stripe	20	Yellow-Gray Stripe Gray-Yellow Stripe
8	Red-Green Stripe Green-Red Stripe	21	Purple-Blue Stripe Blue-Purple Stripe
9	Red-Brown Stripe Brown-Red Stripe	22	Purple-Orange Stripe Orange-Purple Stripe
10	Red-Gray Stripe Gray-Red Stripe	23	Purple-Green Stripe Green-Purple Stripe
11	Black-Blue Stripe Blue-Black Stripe	24	Purple-Brown Stripe Brown-Purple Stripe
12	Black-Orange Stripe Orange-Black Stripe	25	Purple-Gray Stripe Gray-Purple Stripe
13	Black-Green Stripe Green-Black Stripe		

Single Conductor Green with Yellow Stripe

Color Code Chart 14

No. of Pairs	Color	No. of Pairs	Color
1	Black paired with White	3	Blue paired with Green
2	Yellow paired with Orange	4	Gray paired with Purple (PVC Pair)

Color Code Chart 15

No. of Pairs	Color	No. of Pairs	Color
1	Black paired with White	3	Blue paired with Green
2	Yellow paired with Orange	4	Black paired with Red (PVC Pair)

Color Code Chart 16

No. of Pairs	Color	No. of Pairs	Color
1	Black paired with White	4	Red paired with Black
2	Yellow paired with Orange	5	Black paired with Red (PVC Pair)
3	Blue paired with Green		

Color Code Chart 17

No. of Pairs	Color	No. of Pairs	Color
1	White paired with Brown	3	Blue paired with Green
2	Yellow paired with Orange	4	Red paired with Black (PVC Pair)

Color Code Chart 18

No. of Cond.	Color Shielded	No. of Cond.	Color Unshielded
1	Black	1	Clear
2	Red		

Color Code Chart 19

No. of Cond.	Color Shielded	No. of Cond.	Color Unshielded
1	Black	1	Blue
2	Green	2	White
3	Red		
4	Yellow		

Color Code Chart 20

No. of Cond.	Color Shielded	No. of Cond.	Color Unshielded
1	Black/Red	1	Green
		2	White

Color Code Chart 21

No. of Cond.	Color	No. of Cond.	Color
1	Black	2	Clear

Color Code Chart 22

No. of Cond.	Color	No. of Cond.	Color
1	Black	3	Green
2	Red		

Color Code Chart 23

No. of Cond.	Color	No. of Cond.	Color
1	White	3	Red
2	Black	4	Green

Color Code Chart 24 (ICEA Table K2)

No. of Cond.	Color	Spiral Stripe	No. of Cond.	Color	Spiral Stripe
1	Black		19	Orange	Blue
2	Red		20	Yellow	Blue
3	Blue		21	Brown	Blue
4	Orange		22	Black	Orange
5	Yellow		23	Red	Orange
6	Brown		24	Blue	Orange
7	Red	Black	25	Yellow	Orange
8	Blue	Black	26	Brown	Orange
9	Orange	Black	27	Black	Yellow
10	Yellow	Black	28	Red	Yellow
11	Brown	Black	29	Blue	Yellow
12	Black	Red	30	Orange	Yellow
13	Blue	Red	31	Brown	Yellow
14	Orange	Red	32	Black	Brown
15	Yellow	Red	33	Red	Brown
16	Brown	Red	34	Blue	Brown
17	Black	Blue	35	Orange	Brown
18	Red	Blue	36	Yellow	Brown

Color Code Chart 25 (ICEA Table K1)

No. of Cond.	Color	Tracer	No. of Cond.	Color	Tracer
1	Black		12	Black	White
2	White		13	Red	White
3	Red		14	Green	White
4	Green		15	Blue	White
5	Orange		16	Black	Red
6	Blue		17	White	Red
7	White	Black	18	Orange	Red
8	Red	Black	19	Blue	Red
9	Green	Black	20	Red	Green
10	Orange	Black	21	Orange	Green
11	Blue	Black			

The above 21 color sequence applies to rubber insulated cables in accordance with ICEA Pub No. S-1981 (Latest Edition) and NEMA Pub. No. WC 3-1969 METHOD 1. Method 1 applies to color compounds with tracers for cables composed of more than 21 conductors; these 21 color combinations are repeated in regular sequence to the extent necessary to identify all of the conductors.

Color Code Chart 26

Pair No.	RING CONDUCTOR Insul. Color	RING CONDUCTOR Band Mark	TIP CONDUCTOR Insul Color	TIP CONDUCTOR Band Mark
1	Blue	White	White	Blue
2	Orange	White	White	Orange
3	Green	White	White	Green
4	Brown	White	White	Brown
5	Slate	White	White	Slate
6	Blue	Red	Red	Blue
7	Orange	Red	Red	Orange
8	Green	Red	Red	Green
9	Brown	Red	Red	Brown
10	Slate	Red	Red	Slate
11	Blue	Black	Black	Blue
12	Orange	Black	Black	Orange
13	Green	Black	Black	Green
14	Brown	Black	Black	Brown
15	Slate	Black	Black	Slate
16	Blue	Yellow	Yellow	Blue
17	Orange	Yellow	Yellow	Orange
18	Green	Yellow	Yellow	Green
19	Brown	Yellow	Yellow	Brown
20	Slate	Yellow	Yellow	Slate
21	Blue	Violet	Violet	Blue
22	Orange	Violet	Violet	Orange
23	Green	Violet	Violet	Green
24	Brown	Violet	Violet	Brown
25	Slate	Violet	Violet	Slate

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NUMERICAL PART NUMBER INDEX

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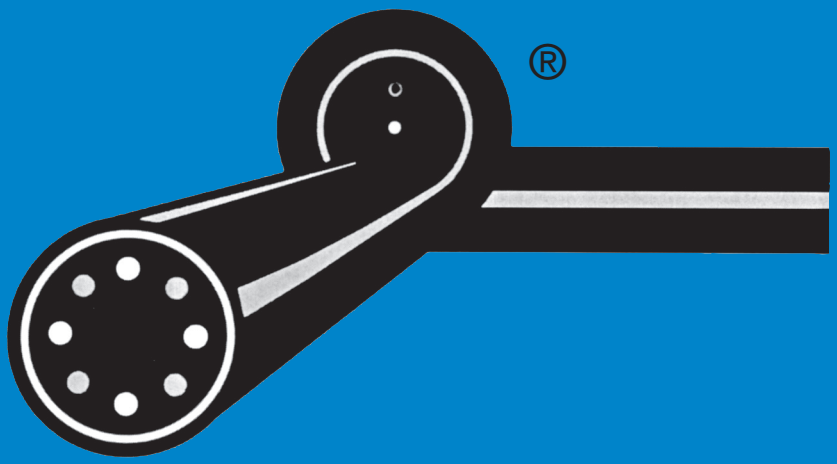

NUMERICAL PART NUMBER INDEX

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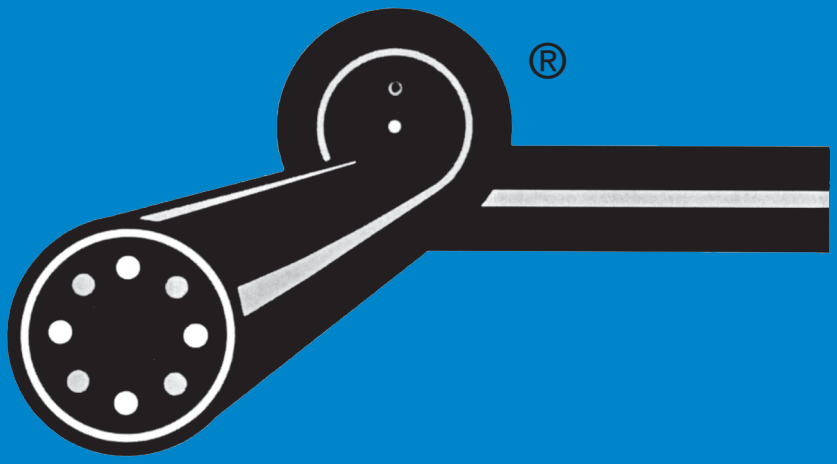
CABLE PRODUCT FINDER



PF

MULTI-CONDUCTOR CABLE PRODUCT FINDER

PF

NO. OF COND.	24 AWG			22 AWG			20 AWG			18 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
2	1180		P-1	1202		P-1	1302		P-2	22001		C-1
	5099	(AF)	P-9	3202		P-4	3212		P-4	5002		C-5
	6002	(AF)	Q-1	5100	(AF)	P-9	5112	(AF)	P-9	5012	(AF)	C-5
				5311	(AF)	P-9	5108	(AF)	P-9	22001S	(AF)	C-6
				3302	(AF)	P-10	3312	(AF)	P-10	22420	(AF)	C-8
				7800	(SS)	P-12	1650		P-11	13700		H-6
				7802	(SS)	P-12	7822	(SS)	P-12	1400		P-2
				7602	(BR)	P-13	7612	(BR)	P-13	3222		P-4
				7900	(BR)	P-17	7702	(BR)	P-14	3150		P-5
				8322	(BR)	P-24	7502	(BR)	P-15	3160		P-5
				5150		P-26	8332	(BR)	P-24	3185	(AF)	P-6
				5155		P-26	5165		P-26	5120	(AF)	P-9
				5250	(AF)	P-27	5265	(AF)	P-27	3322	(AF)	P-10
				5252	(AF)	P-27	6090	(AF)	Q-2	7832	(SS)	P-12
				6060	(AF)	Q-2				7622	(BR)	P-13
										7002	(BR)	P-16
										8342	(BR)	P-24
										SK18		P-25
										5170		P-26
										5171		P-26
										5270	(AF)	P-27
										5271	(AF)	P-27
										44600	(AF)	S-9
3	1181		P-1	1203		P-1	1303		P-2	22003		C-1
	6003	(AF)	Q-1	3203		P-4	3213		P-4	22003S	(AF)	C-6
	6450	(FB)	Q-3	5103	(AF)	P-9	5109	(AF)	P-9	22421	(AF)	C-8
	6490	(FB)	Q-5	3303	(AF)	P-10	5113	(AF)	P-9	1403		P-2
				7803	(SS)	P-12	3313	(AF)	P-10	3223		P-4
				7603	(BR)	P-13	1653		P-11	5123	(AF)	P-9
				8323	(BR)	P-24	7823	(SS)	P-12	3323	(AF)	P-10
				5156		P-26	7613	(BR)	P-13	7833	(SS)	P-12
				5253	(AF)	P-27	7703	(BR)	P-14	7623	(BR)	P-13
				6061	(AF)	Q-2	7503	(BR)	P-15	7003	(BR)	P-16
				6470	(FB)	Q-4	8333	(BR)	P-24	8343	(BR)	P-24
				22749		T-2	5166		P-26	5172		P-26
							5266	(AF)	P-27	5272		P-27
							6091	(AF)	Q-2	44700	(AF)	S-9
4	1182		P-1	1204		P-1	1304		P-2	22004		C-1
	6004	(AF)	Q-1	5104	(AF)	P-9	5114	(AF)	P-9	22004S	(AF)	C-6
	6451	(FB)	Q-3	7804	(SS)	P-12	1654		P-11	13701		H-6
	6491	(FB)	Q-5	7604	(BR)	P-13	7824	(SS)	P-12	1404		P-2
	22745		T-2	8324	(BR)	P-24	7614	(BR)	P-13	3224		P-4
				5151		P-26	7704	(BR)	P-14	3162		P-5
				5157		P-26	7504	(BR)	P-15	3186	(AF)	P-6
				5254	(AF)	P-27	8334	(BR)	P-24	5124	(AF)	P-9
				6062	(AF)	Q-2	5167		P-26	7834	(SS)	P-12
				6471	(FB)	Q-4	5267	(AF)	P-27	7624	(BR)	P-13
				22750		T-2	6092	(AF)	Q-2	7004	(BR)	P-16
										8344	(BR)	P-24
										5173		P-26
										5273	(AF)	P-27
5	1183		P-1	1205		P-1	1305		P-2	9120		G-4
	6005	(AF)	Q-1	6472	(FB)	Q-4	1655		P-11	1405		P-2
	6452	(FB)	Q-3				7705	(BR)	P-14			
	6492	(FB)	Q-5				7505	(BR)	P-15			
6	1184		P-1	1206		P-1	1306		P-2	22005		C-1
	6006	(AF)	Q-1	7806	(SS)	P-12	1656		P-11	22005S	(AF)	C-6
	6453	(FB)	Q-3	5158		P-26	7826	(SS)	P-12	9121		G-4
	6493	(FB)	Q-5	5255	(AF)	P-27	7706	(BR)	P-14	13702		H-6
				6063	(AF)	Q-2	7506	(BR)	P-15	1406		P-2
				6473	(FB)	Q-4	6093	(AF)	Q-2	3164		P-5
										7006	(BR)	P-16
7	1185		P-1	1207		P-1	1307		P-2	22007		C-1
	6007	(AF)	Q-1	6474	(FB)	Q-4	1657		P-11	22007S	(AF)	C-6
	6454	(FB)	Q-3				7507	(BR)	P-15	9122		G-4
	6454	(FB)	Q-5							1407		P-2

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

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NO. OF COND.	16 AWG			14 AWG			12 AWG			10 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
2	9401		C-1	9438		C-2	9476		C-2	9514		C-2
	5003		C-5	9540		C-3	9580		C-3	9620		C-4
	5013	(AF)	C-5	5004		C-5	5005		C-5	9514S	(AF)	C-6
	9401S	(AF)	C-6	5014	(AF)	C-5	5015	(AF)	C-5	22602		C-8
	22662		C-7	9438S	(AF)	C-6	9476S	(AF)	C-6	14100		H-1
	22440	(AF)	C-8	22502		C-7	22562		C-8	13746		H-7
	12002		C-9	22460	(AF)	C-8	22480	(AF)	C-8	13766		H-7
	20080		D-8	12102		C-9	12202		C-10	7402	(BR)	P-16
	13704		H-6	20081		D-8	20082		D-8	SK10		P-25
	1502		P-3	14000		H-1	14050		H-1			
	3232		P-4	13708		H-6	13712		H-6			
	3151		P-5	13740		H-7	13743		H-7			
	3170		P-5	13760		H-7	13763		H-7			
	3188	(AF)	P-6	1602		P-3	1632		P-3			
	5132	(AF)	P-9	3242		P-4	3252		P-4			
	3332	(AF)	P-10	3152		P-5	3180		P-5			
	7842	(SS)	P-12	3175		P-5	3194	(AF)	P-6			
	7632	(BR)	P-13	3191	(AF)	P-6	5152	(AF)	P-9			
	7102	(BR)	P-16	5142	(AF)	P-9	3352	(AF)	P-10			
	8352	(BR)	P-24	3342	(AF)	P-10	7862	(SS)	P-12			
	SK16		P-25	7852	(SS)	P-12	7652	(BR)	P-13			
	5175		P-26	7642	(BR)	P-13	7302	(BR)	P-16			
	5275	(AF)	P-27	7202	(BR)	P-16	SK12		P-25			
	44630	(AF)	S-9	8362	(BR)	P-24	5183		P-26			
				SK14		P-25	5285	(AF)	P-27			
				5180		P-26						
				5280	(AF)	P-27						
3	9402		C-1	9439		C-2	9477		C-2	9515		C-2
	9402S	(AF)	C-6	9541		C-3	9581		C-3	9621		C-4
	22663		C-7	9439S	(AF)	C-6	9477S	(AF)	C-6	9515S	(AF)	C-6
	22441	(AF)	C-8	22503		C-7	22563		C-8	22603		C-8
	12003		C-9	22461	(AF)	C-8	22481	(AF)	C-8	20202		F-6
	39359		C-14	12103		C-9	12203		C-10	14101		H-1
	1503		P-3	20200		F-6	20201		F-6	13202		H-2
	3233		P-4	14001		H-1	14051		H-1	13747		H-7
	5133	(AF)	P-9	13200		H-2	13201		H-2	13767		H-7
	3333	(AF)	P-10	13741		H-7	13744		H-7	7403	(BR)	P-16
	7843	(SS)	P-12	13761		H-7	13764		H-7			
	7633	(BR)	P-13	1603		P-3	1633		P-3			
	7103	(BR)	P-16	3243		P-4	7863	(SS)	P-12			
	8353	(BR)	P-24	3343	(AF)	P-10	7653	(BR)	P-13			
	44730	(AF)	S-9	7853	(SS)	P-12	7303	(BR)	P-16			
				7643	(BR)	P-13						
				7203	(BR)	P-16						
4	9403		C-1	9440		C-2	9478		C-2	9516		C-2
	9403S	(AF)	C-6	9542		C-3	9582		C-3	9622		C-4
	22664		C-7	9440S	(AF)	C-6	9478S	(AF)	C-6	9516S	(SF)	C-6
	12004		C-9	22504		C-7	22564		C-8	22604		C-8
	39390		C-11	12104		C-9	12204		C-10	39398		C-11
	39440	(BR)	C-11	39393		C-11	39396		C-11	39463		C-12
	13705		H-6	39450		C-12	39460		C-12	39362		C-14
	1504		P-3	39361		C-14	20211		F-6	20212		F-6
	3172		P-5	20210		F-6	14052		H-1	14102		H-1
	3189	(AF)	P-6	14002		H-1	13226		H-2	13227		H-2
	5134	(AF)	P-9	13225		H-2	13713		H-6	13748		H-7
	7104	(BR)	P-16	13709		H-6	13745		H-7	13768		H-7
	8354	(BR)	P-24	13742		H-7	13765		H-7			
	5177		P-26	13762		H-7	3182		P-5			
	44632	(AF)	S-9	1604		P-3	3195	(AF)	P-6			
				3177		P-5	7304	(BR)	P-16			
				3192	(AF)	P-6						
				7204	(BR)	P-16						

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

MULTI-CONDUCTOR CABLE PRODUCT FINDER

NO. OF COND.	16 AWG			14 AWG			12 AWG			10 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
5	9404		C-1	9441		C-2	9479		C-2	9517		C-2
	9404S	(AF)	C-6	9543		C-3	9583		C-3	9623		C-4
	22665		C-7	9441S	(AF)	C-6	9479S	(AF)	C-6	9517S	(AF)	C-6
	12005		C-9	22505		C-7	22565		C-8	22605		C-8
	9150		G-4	12105		C-9	12205		C-10	39431		C-11
	1505		P-3	9178		G-5	39430		C-11	9220		G-5
				14003		H-1	9200		G-5	14103		H-1
				1605		P-3	14053		H-1			
6	9405		C-1	9544		C-3	9480		C-2	9624		C-4
	22666		C-7	22506		C-7	9584		C-3	22606		C-8
	12006		C-9	12106		C-9	22566		C-8	9221		G-5
	39151		C-13	39179		C-13	12206		C-10	9977		I-5
	9151		G-4	9179		G-5	9201		G-5			
	13706		H-6	13710		H-6						
	7106	(BR)	P-16	7206	(BR)	P-16						
7	9406		C-1	9443		C-2	9481		C-2	9519		C-2
	9406S	(AF)	C-6	9545		C-3	9585		C-3	9625		C-4
	22667		C-7	9443S	(AF)	C-6	9481S	(AF)	C-6	9519S	(AF)	C-6
	12007		C-9	22507		C-7	22567		C-8	22607		C-8
	39360		C-14	12107		C-9	12207		C-10	9222		G-5
	9152		G-4	9180		G-5	9202		G-5	14104		H-1
	1507		P-3	14004		H-1	14054		H-1			
				1607		P-3						

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

NO. OF COND.	8 AWG P/N	SHIELD	PAGE	6 AWG P/N	SHIELD	PAGE	4 AWG P/N	SHIELD	PAGE	2 AWG P/N	SHIELD	PAGE
2	9310		D-8	9311		D-8	9312		D-8	9313		D-8
	SK8		P-25									
3	9278		D-9	9279		D-9	9280		D-9	9282		D-9
	9250		D-10	9251		D-10	9252		D-10	9254		D-10
	12400		E-13	25501		D-11	25502		D-11	25503		D-11
	12440		E-13	25520		D-11	25521		D-11	25522		D-11
	13140		E-14	25540		D-12	25541		D-12	25531		D-11
	13160		E-14	25552		D-12	25553		D-12	25542		D-12
	13000		F-1	12401		E-13	25570		D-12	25554		D-12
	13060		F-1	12441		E-13	12402		E-13	25571		D-12
	13100		F-3	13141		E-14	12442		E-13	25582		D-12
	22700		F-5	13161		E-14	13142		E-14	12403		E-13
	20203		F-6	13001		F-1	13162		E-14	12443		E-13
	22765		F-7	13061		F-1	13002		F-1	13143		E-14
	13203		H-2	13101		F-3	13062		F-1	13163		E-14
	13250		H-3	22701		F-5	13102		F-3	13600		E-15
	13350	(CT)	H-3	20204		F-6	22702		F-5	13620		E-15
	16600		H-5	22766		F-7	20205		F-6	13003		F-1
				13204		H-2	22767		F-7	13063		F-1
				13251		H-3	13205		H-2	13103		F-3
				13351	(CT)	H-3	13252		H-3	22703		F-5
				16601		H-5	13352	(CT)	H-3	20206		F-6
							16602		H-5	22768		F-7
										13206		H-2
										13253		H-3
										13353	(CT)	H-3
										13270	(CT)	H-4
										13290	(CT)	H-4
										16603		H-5
4	39399		C-11	39400		C-11	39401		C-11	39402		C-11
	39465		C-12	39467		C-12	39469		C-12	39471		C-12
	9295		D-9	9296		D-9	9297		D-9	9299		D-9
	9266		D-10	9267		D-10	9268		D-10	9270		D-10
	12420		E-13	12421		E-13	12422		E-13	12423		E-13
	13020		F-2	13021		F-2	13022		F-2	13023		F-2
	13040		F-2	13041		F-2	13042		F-2	13043		F-2
	13120		F-4	13121		F-4	13122		F-4	13123		F-4
	22720		F-5	22721		F-5	22722		F-5	22723		F-5
	20213		F-6	20214		F-6	20215		F-6	20216		F-6
	13228		H-2	13229		H-2	13230		H-2	13231		H-2
	16620		H-5	16621		H-5	16622		H-5	16623		H-5
5	9295-5CDR		D-9	39432		C-11	39433		C-11	39434		C-11
				9296-5CDR		D-9	9297-5CDR		D-9	9299-5CDR		D-9

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
CT Copper Tape Shield Over Each Conductor
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

MULTI-CONDUCTOR CABLE PRODUCT FINDER

NO. OF COND.	24 AWG			22 AWG			20 AWG			18 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
8	1186		P-1	1208		P-1	1308		P-2	9123		G-4
	6008	(AF)	Q-1	5159		P-26	1658		P-11	13703		H-6
	6455	(FB)	Q-3	5256	(AF)	P-27	7708	(BR)	P-14	1408		P-2
	6495	(FB)	Q-5	6064	(AF)	Q-2	7508	(BR)	P-15	7008	(BR)	P-16
				6475	(FB)	Q-4	6094	(AF)	Q-2			
9-12	1187		P-1	1209		P-1	1309		P-2	22009		C-1
	1188		P-1	1210		P-1	1310		P-2	22010		C-1
	1189		P-1	1212		P-1	1312		P-2	22012		C-1
	6009	(AF)	Q-1	5160		P-26	1660		P-11	22009S	(AF)	C-6
	6010	(AF)	Q-1	5161		P-26	1662		P-11	22012S	(AF)	C-6
	6456	(FB)	Q-3	5257	(AF)	P-27	7710	(BR)	P-14	9124		G-4
	6457	(FB)	Q-3	5258	(AF)	P-27	7712	(BR)	P-14	9125		G-4
	6496	(FB)	Q-5	6065	(AF)	Q-2	7510	(BR)	P-15	1409		P-2
	6497	(FB)	Q-5	6476	(FB)	Q-4	7512	(BR)	P-15	1410		P-2
				6477	(FB)	Q-4	6095	(AF)	Q-2	1412		P-2
										7010	(BR)	P-16
										7012	(BR)	P-16
13-20	1190		P-1	1215		P-1	1315		P-2	22015		C-1
	1191		P-1	1220		P-1	1665		P-11	22019		C-1
	6015	(AF)	Q-1	6070	(AF)	Q-2	1670		P-11	22020		C-1
	6020	(AF)	Q-1	6075	(AF)	Q-2	7715	(BR)	P-14	22015S	(AF)	C-6
	6458	(FB)	Q-3	6478	(FB)	Q-4	7720	(BR)	P-14	22019S	(AF)	C-6
	6459	(FB)	Q-3	6479	(FB)	Q-4	7520	(BR)	P-15	9126		G-4
	6498	(FB)	Q-5	6275	(AF)	Q-7	6096	(AF)	Q-2	9127		G-4
							6097	(AF)	Q-2	9128		G-4
										9129		G-4
										1415		P-2
										1419		P-2
										7015	(BR)	P-16
										7020	(BR)	P-16
21-28	1192		P-1	1225		P-1	6098	(AF)	Q-2	22024		C-1
	6025	(AF)	Q-1	6080	(AF)	Q-2				22025		C-1
	6460	(FB)	Q-3	6480	(FB)	Q-4				22026		C-1
	6499	(AF)	Q-5							9130		G-4
										1425		P-2
27-60	6030	(AF)	Q-1	1230		P-1				22030		C-1
	6040	(AF)	Q-1	1240		P-1				22034		C-1
	6050	(AF)	Q-1	1250		P-1				22035		C-1
	6055	(AF)	Q-1	1260		P-1				22037		C-1
	6461	(FB)	Q-3	6481	(FB)	Q-4				9133		G-4
										9132		G-4
										9134		G-4
										9136		G-4
										9137		G-4
										9138		G-4

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

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NO. OF COND.	16 AWG			14 AWG			12 AWG			10 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
8	22668		C-7	9546		C-3	9586		C-3	9626		C-4
	12008		C-9	22508		C-7	22568		C-8	22608		C-8
	39391		C-11	12108		C-9	12208		C-10	9223		G-5
	39445		C-12	39394		C-11	39397		C-11			
	39153		C-13	39451		C-12	39461		C-12			
	39353		C-14	39181		C-13	39203		C-13			
	39441	(BR)	C-11	9181		G-5	9203		G-5			
	9153		G-4	13711		H-6						
	13707		H-6									
	7108	(BR)	P-16									
9-12	9408		C-1	9445		C-2	9483		C-2	9521		C-2
	9409		C-1	9446		C-2	9484		C-2	9627		C-4
	9411		C-1	9448		C-2	9486		C-2	9628		C-4
	9408S	(AF)	C-6	9547		C-3	9587		C-3	9630		C-4
	9411S	(AF)	C-6	9548		C-3	9588		C-3	9521S	(AF)	C-6
	22669		C-7	9550		C-3	9590		C-3	22609		C-8
	22670		C-7	9445S	(AF)	C-6	9483S	(AF)	C-6	22610		C-8
	22672		C-7	9448S	(AF)	C-6	9486S	(AF)	C-6	22612		C-8
	12009		C-9	22509		C-7	22569		C-8	9224		G-5
	39392		C-11	22510		C-7	22570		C-8	9225		G-5
	39446		C-12	22512		C-7	22572		C-8	14105		H-1
	39155		C-13	12109		C-9	12209		C-10	14107		H-1
	39156		C-13	12110		C-9	12210		C-10			
	39354		C-14	12112		C-9	12212		C-10			
	39363		C-14	39395		C-11	39206		C-13			
	39442	(BR)	C-11	39452		C-12	9204		G-5			
	9154		G-4	39184		C-13	9205		G-5			
	9155		G-4	39443	(BR)	C-11	9206		G-5			
	9156		G-4	9182		G-5	14055		H-1			
	1509		P-3	9183		G-5	14056		H-1			
	1512		P-3	9184		G-5	14057		H-1			
	7110	(BR)	P-16	14005		H-1						
				14006		H-1						
				14007		H-1						
				1609		P-3						
				1612		P-3						
13-20	9414		C-1	9451		C-2	9489		C-2	9522		C-2
	9418		C-1	9455		C-2	9493		C-2	9524		C-2
	9419		C-1	9456		C-2	9494		C-2	9633		C-4
	9414S	(AF)	C-6	9553		C-3	9593		C-3	9637		C-4
	9418S	(AF)	C-6	9557		C-3	9597		C-3	9638		C-4
	22675		C-7	9558		C-3	9598		C-3	22615		C-8
	22679		C-7	9451S	(AF)	C-6	9489S	(AF)	C-6	22619		C-8
	22680		C-7	9455S	(AF)	C-6	9493S	(AF)	C-6	22620		C-8
	12010		C-9	22515		C-7	22575		C-8	9229		G-5
	12012		C-9	22519		C-7	22579		C-8	9225-16CDR		G-5
	12014		C-9	22520		C-7	22580		C-8	14108		H-1
	39158		C-13	12114		C-9	12214		C-10	14109		H-1
	39160		C-13	12116		C-9	12216		C-10			
	39355		C-14	12119		C-9	12219		C-10			
	39356		C-14	39186		C-13	39208		C-13			
	39364		C-14	39190		C-13	39211		C-13			
	9157		G-4	9185		G-5	9207		G-5			
	9158		G-4	9186		G-5	9208		G-5			
	9159		G-4	9187		G-5	9210		G-5			
	9160		G-4	9190		G-5	9211		G-5			
	1515		P-3	14008		H-1	9212		G-5			
	1519		P-3	14009		H-1	14058		H-1			
				1615		P-3	14059		H-1			

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

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MULTI-CONDUCTOR CABLE PRODUCT FINDER

NO. OF COND.	16 AWG P/N	SHIELD	PAGE	14 AWG P/N	SHIELD	PAGE	12 AWG P/N	SHIELD	PAGE	10 AWG P/N	SHIELD	PAGE
21-26	9423		C-1	9460		C-2	9498		C-2	9642		C-4
	9424		C-1	9461		C-2	9499		C-2	9643		C-4
	9425		C-1	9462		C-2	9500		C-2	9644		C-4
	22684		C-7	9562		C-3	9602		C-3	22624		C-8
	22685		C-7	9563		C-3	9603		C-3	22625		C-8
	22686		C-7	9564		C-3	9604		C-3	22626		C-8
	12016		C-9	22524		C-7	22584		C-8	9226		G-5
	12019		C-9	22525		C-7	22585		C-8	14110		H-1
	12020		C-9	22526		C-7	22586		C-8			
	39162		C-13	12120		C-9	12220		C-10			
	39357		C-14	39191		C-13	39212		C-13			
	9162		G-4	9191		G-5	9218		G-5			
	9162-26CDR		G-4	14010		H-1	14060		H-1			
	1525		P-3									
27-60	9429		C-1	9466		C-2	9504		C-2	9648		C-4
	9433		C-1	9472		C-2	9511		C-2	9655		C-4
	9435		C-1	9473		C-2	9608		C-3	22630		C-8
	9436		C-1	9568		C-3	9615		C-3	22636		C-8
	22690		C-7	9575		C-3	22590		C-8	22637		C-8
	22696		C-7	22530		C-7	22596		C-8	9227		G-5
	22697		C-7	22536		C-7	22597		C-8	14111		H-1
	12025		C-9	22537		C-7	12225		C-10			
	12030		C-9	12125		C-9	12230		C-10			
	39166		C-13	12130		C-9	12235		C-10			
	39167		C-13	9192		G-5	39218		C-13			
	39358		C-14	9193		G-5	39219		C-13			
	9166		G-4	9193-40CDR		G-5	9211-30CDR		G-5			
	9167		G-4	9194		G-5	9213		G-5			
	9169		G-4	9195		G-5	9214		G-5			
	9170		G-4	9196		G-5	9215		G-5			
	9171		G-4	14011		H-1	9216		G-5			
	9175		G-4				9219		G-5			
							14061		H-1			

AF Aluminum Foil/Polyester Shield Overall.
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NO. OF PAIRS	28 AWG			26 AWG			24 AWG			22 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
1							6201	(AF)	Q-6	2501 6261	 (AF)	P-7 Q-7
2	6550	(FB)	Q-8				6202 6570 6402 32096 33250 35450	(AF) (FB) (SP)	Q-6 Q-8 Q-13 T-7 T-7 T-8	2502 2602 3402 3602 6302 5312 5313 5314 6262 8549	 (AF) (SP) (AF) (SP) (SP) (SP) (AF) (FB)	P-7 P-7 P-18 P-19 P-20 P-22 P-22 P-23 Q-7 Q-9
3	6551	(FB)	Q-8				6203 6571 6590 6403 32097 33251 35451	(AF) (FB) (AF) (SP)	Q-6 Q-8 Q-10 Q-13 T-7 T-7 T-8	2503 2603 3403 3603 6263 6603 6503	 (AF) (SP) (AF) (SP) (SP)	P-7 P-7 P-18 P-19 Q-7 Q-11 Q-12
4	6552	(FB)	Q-8				6204 6572 6591 6404 32098 33252 35400 35410 35460 35461 35470	(AF) (FB) (AF) (SP) (AF) 	Q-6 Q-8 Q-10 Q-13 T-7 T-7 T-8 T-8 T-9 T-9 T-10	2504 2604 3404 3604 6304 6264	 (AF) (SP) (AF) (AF)	P-7 P-7 P-18 P-19 P-20 Q-7

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

MULTI-PAIR CABLE PRODUCT FINDER

NO. OF PAIRS	20 AWG			18 AWG			16 AWG			14 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
1	4401		S-1	13720		H-6	13721		H-6	13723		H-6
	4400	(AF)	S-1	1402		P-8	4461		S-1	4490	(AF)	S-1
				4431		S-1	4460	(AF)	S-1	4660	(AF)	S-5
				4430	(AF)	S-1	4631		S-5	4661		S-5
				4601		S-5	4630	(AF)	S-5			
				4600	(AF)	S-5						
2	5323	(AF)	P-21	2902		P-8	13722		H-6	4662	(AF)	S-5
	4402	(AF)	S-1	3502	(AF)	P-18	4462	(AF)	S-1	4862	(SPOS)	S-6
	3802	(SPOS)	S-2	3702	(SP)	P-19	3862	(SPOS)	S-2			
				4432	(AF)	S-1	4632	(AF)	S-5			
				3832	(SPOS)	S-2	4832	(SPOS)	S-6			
				4602	(AF)	S-5	44832	(SPOS)	S-9			
				4802	(SPOS)	S-6						
3	2803		P-7	2903		P-8	44833	(SPOS)	S-9			
	6783	(SP)	P-23	3503	(AF)	P-18						
	6703	(SP)	Q-11	3703	(SP)	P-19						
				6803	(SP)	Q-11						
				44803	(SPOS)	S-9						
4	4404	(AF)	S-1	2904		P-8	4464	(AF)	S-1	4664	(AF)	S-5
	3804	(SPOS)	S-2	3504	(AF)	P-18	3864	(SPOS)	S-2	4864	(SPOS)	S-6
				3704	(SP)	P-19	4634	(AF)	S-5			
				4434	(AF)	S-1	4834	(SPOS)	S-6			
				3834	(SPOS)	S-2	44834	(SPOS)	S-9			
				4604	(AF)	S-5						
				4804	(SPOS)	S-6						
				44804	(SPOS)	S-9						

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
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FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

NO. OF PAIRS	28 AWG P/N	SHIELD	PAGE	26 AWG P/N	SHIELD	PAGE	24 AWG P/N	SHIELD	PAGE	22 AWG P/N	SHIELD	PAGE
5-7	6553	(FB)	Q-8				6205	(AF)	Q-6	2505		P-7
	6554	(FB)	Q-8				6206	(AF)	Q-6	2506		P-7
	6555	(FB)	Q-8				6207	(AF)	Q-6	2606		P-7
							6573	(FB)	Q-8	3406	(AF)	P-18
							6574	(FB)	Q-8	3606	(SP)	P-19
							6575	(FB)	Q-8	6306	(AF)	P-20
							6592	(AF)	Q-10	6265	(AF)	Q-7
							6406	(SP)	Q-13	6266	(AF)	Q-7
							32099		T-7	6606	(SP)	Q-11
							33253		T-7	6506	(SP)	Q-12
							35453		T-8			
8-12	6556	(FB)	Q-8				6208	(AF)	Q-6	2508		P-7
	6557	(FB)	Q-8				6209	(AF)	Q-6	2509		P-7
	6558	(FB)	Q-8				6210	(AF)	Q-6	2511		P-7
							6576	(FB)	Q-8	2609		P-7
							6577	(FB)	Q-8	2612		P-7
							6578	(FB)	Q-8	3409	(AF)	P-18
							6593	(AF)	Q-10	3411	(AF)	P-18
							6594	(AF)	Q-10	3609	(SP)	P-19
							6409	(SP)	Q-13	3611	(SP)	P-19
							6411	(SP)	Q-13	6309	(AF)	P-20
							6412	(SP)	Q-13	6269	(AF)	Q-7
							32100		T-7	6271	(AF)	Q-7
							33254		T-7	6609	(SP)	Q-11
										6611	(SP)	Q-11
										6612	(SP)	Q-11
										6509	(SP)	Q-12
										6511	(SP)	Q-12
13-27	6559	(FB)	Q-8				6215	(AF)	Q-6	2513		P-7
	6560	(FB)	Q-8				6219	(AF)	Q-6	2515		P-7
	6561	(FB)	Q-8				6225	(AF)	Q-6	2519		P-7
							6579	(FB)	Q-8	2527		P-7
							6580	(FB)	Q-8	2615		P-7
							6581	(FB)	Q-8	2619		P-7
							6415	(SP)	Q-13	2627		P-7
							6417	(SP)	Q-13	3415	(AF)	P-18
							6419	(SP)	Q-13	3419	(AF)	P-18
							6427	(SP)	Q-13	3427	(AF)	P-18
							32101		T-7	3615	(SP)	P-19
							33255		T-7	3619	(SP)	P-19
							35458		T-8	3627	(SP)	P-19
										6315	(AF)	P-20
										6319	(AF)	P-20
										6327	(AF)	P-20
										6275	(AF)	Q-7
										6279	(AF)	Q-7
										6283	(AF)	Q-7
										6615	(SP)	Q-11
										6617	(SP)	Q-11
										6619	(SP)	Q-11
										6627	(SP)	Q-11
										6515	(SP)	Q-12
28-600							6250	(AF)	Q-6	2651		P-7
							32102		T-7	3451	(AF)	P-18
							32103		T-7	3651	(SP)	P-19
							32104		T-7	6338	(AF)	P-20
							32105		T-7	6351	(AF)	P-20
							32106		T-7	6352	(AF)	P-20
							32107		T-7	6285	(AF)	Q-7
							32108		T-7	6637	(SP)	Q-11
							33256		T-7			
							33257		T-7			
							33258		T-7			
							33259		T-7			

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
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SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

MULTI-PAIR CABLE PRODUCT FINDER

NO. OF PAIRS	20 AWG			18 AWG			16 AWG			14 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
5-7	2806		P-7	2905		P-8	4466	(AF)	S-1			
	6786	(SP)	P-23	2906		P-8	44836	(SPOS)	S-9			
	6706	(SP)	Q-11	3506	(AF)	P-18	44837	(SPOS)	S-9			
	6709	(SP)	Q-11	3706	(SP)	P-19						
	6712	(SP)	Q-11	6806	(SP)	Q-11						
	4406	(AF)	S-1	4436	(AF)	S-1						
8-12	2809		P-7	2908		P-8	4468	(AF)	S-1	4668	(AF)	S-5
	4408	(AF)	S-1	2909		P-8	4470	(AF)	S-1	4670	(AF)	S-5
	4410	(AF)	S-1	2912		P-8	4472	(AF)	S-1	4672	(AF)	S-5
	4412	(AF)	S-1	3509	(AF)	P-18	3868	(SPOS)	S-2	4868	(SPOS)	S-6
	3808	(SPOS)	S-2	3511	(AF)	P-18	3870	(SPOS)	S-2	4870	(SPOS)	S-6
	3810	(SPOS)	S-2	3709	(SP)	P-19	3872	(SPOS)	S-2	4872	(SPOS)	S-6
	3812	(SPOS)	S-2	3711	(SP)	P-19	4638	(AF)	S-5			
				6809	(SP)	Q-11	4640	(AF)	S-5			
				6812	(SP)	Q-11	4642	(AF)	S-5			
				4438	(AF)	S-1	4838	(SPOS)	S-6			
				4440	(AF)	S-1	4840	(SPOS)	S-6			
				4442	(AF)	S-1	4842	(SPOS)	S-6			
				3838	(SPOS)	S-2	44838	(SPOS)	S-9			
				3840	(SPOS)	S-2	44840	(SPOS)	S-9			
				3842	(SPOS)	S-2	44842	(SPOS)	S-9			
				4608	(AF)	S-5						
				4610	(AF)	S-5						
				4612	(AF)	S-5						
				4808	(SPOS)	S-6						
				4810	(SPOS)	S-6						
				4812	(SPOS)	S-6						
				44808	(SPOS)	S-9						
				44812	(SPOS)	S-9						
13-27	2815		P-7	2915		P-8	4474	(AF)	S-1	4674	(AF)	S-5
	6715	(SP)	Q-11	2919		P-8	4476	(AF)	S-1	4676	(AF)	S-5
	4414	(AF)	S-1	3515	(AF)	P-18	4478	(AF)	S-1	4678	(AF)	S-5
	4416	(AF)	S-1	3715	(SP)	P-19	3874	(SPOS)	S-2	4874	(SPOS)	S-6
	4418	(AF)	S-1	6815	(SP)	Q-11	3876	(SPOS)	S-2	4876	(SPOS)	S-6
	3814	(SPOS)	S-2	4444	(AF)	S-1	3878	(SPOS)	S-2	4878	(SPOS)	S-6
	3816	(SPOS)	S-2	4446	(AF)	S-1	4644	(AF)	S-5			
	3818	(SPOS)	S-2	4448	(AF)	S-1	4646	(AF)	S-5			
				3844	(SPOS)	S-2	4648	(AF)	S-5			
				3846	(SPOS)	S-2	4844	(SPOS)	S-6			
				3848	(SPOS)	S-2	4846	(SPOS)	S-6			
				4614	(AF)	S-5	4848	(SPOS)	S-6			
				4616	(AF)	S-5	44844	(SPOS)	S-9			
				4618	(AF)	S-5	44848	(SPOS)	S-9			
				4814	(SPOS)	S-6						
				4816	(SPOS)	S-6						
				4818	(SPOS)	S-6						
				44814	(SPOS)	S-9						
				44816	(SPOS)	S-9						
				44818	(SPOS)	S-9						
28-50	4420	(AF)	S-1	4450	(AF)	S-1	4480	(AF)	S-1	4680	(AF)	S-5
	4425	(AF)	S-1	4455	(AF)	S-1	4485	(AF)	S-1	4685	(AF)	S-5
	3820	(SPOS)	S-2	3850	(SPOS)	S-2	3880	(SPOS)	S-2	4880	(SPOS)	S-6
	3825	(SPOS)	S-2	3855	(SPOS)	S-2	3885	(SPOS)	S-2	4885	(SPOS)	S-6
				4620	(SPOS)	S-5	4650	(AF)	S-5			
				4625	(SPOS)	S-5	4655	(AF)	S-5			
				4820	(SPOS)	S-6	4850	(SPOS)	S-6			
				4825	(SPOS)	S-6	4855	(SPOS)	S-6			
				44820	(SPOS)	S-9						

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
SS Spiral Shield Overall.
FB Aluminum Foil/Braid Shield Overall.
SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

NO. OF TRIADS	20 AWG			18 AWG			16 AWG			14 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
1	4501		S-3	4531		S-3	4561		S-3	4590	(AF)	S-3
	4500	(AF)	S-3	4530	(AF)	S-3	4560	(AF)	S-3	4761		S-7
				4701		S-7	4731		S-7	4760	(AF)	S-7
				4700	(AF)	S-7	4730	(AF)	S-7			
2	4502	(AF)	S-3	4532	(AF)	S-3	4562	(AF)	S-3			
	3902	(STOS)	S-4	3932	(STOS)	S-4	3962	(STOS)	S-4			
4	4504	(AF)	S-3	4534	(AF)	S-3	4564	(AF)	S-3	4764	(AF)	S-7
	3904	(STOS)	S-4	3934	(STOS)	S-4	3964	(STOS)	S-4	4964	(STOS)	S-8
				4704	(AF)	S-7	4734	(AF)	S-7			
				4904	(STOS)	S-8	4934	(STOS)	S-8			
							44934	(STOS)	S-9			
6							44936	(STOS)	S-9			
8	4508	(AF)	S-3	4538	(AF)	S-3	4568	(AF)	S-3			
	3908	(STOS)	S-4	3938	(STOS)	S-4	3968	(STOS)	S-4			
				4708	(AF)	S-7	4738	(AF)	S-7			
							44938	(STOS)	S-9			
12	4512	(AF)	S-3	4542	(AF)	S-3	4572	(AF)	S-3	4772	(AF)	S-7
	3912	(STOS)	S-4	3942	(STOS)	S-4	3972	(STOS)	S-4	4972	(STOS)	S-8
				4912	(STOS)	S-8	4742	(AF)	S-7			
				4712	(AF)	S-7	4942	(STOS)	S-8			
							44942	(STOS)	S-9			
16-36	4514	(AF)	S-3	4544	(AF)	S-3	4574	(AF)	S-3	4774	(AF)	S-7
	4518	(AF)	S-3	4548	(AF)	S-3	4578	(AF)	S-3	4778	(AF)	S-7
	4520	(AF)	S-3	4550	(AF)	S-3	4580	(AF)	S-3	4974	(STOS)	S-8
	3914	(STOS)	S-4	3944	(STOS)	S-4	3974	(STOS)	S-4	4978	(STOS)	S-8
	3918	(STOS)	S-4	3948	(STOS)	S-4	3978	(STOS)	S-4	4980	(STOS)	S-8
	3920	(STOS)	S-4	3950	(STOS)	S-4	3980	(STOS)	S-4			
				4714	(AF)	S-7	4744	(AF)	S-7			
				4718	(AF)	S-7	4748	(AF)	S-7			
				4720	(AF)	S-7	4750	(AF)	S-7			
				4914	(STOS)	S-8	4944	(STOS)	S-8			
				4918	(STOS)	S-8	4948	(STOS)	S-8			
				4920	(STOS)	S-8	4950	(STOS)	S-8			

AF Aluminum Foil/Polyester Shield Overall.
BR Braid Shield Overall.
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SP Aluminum Foil/Polyester Shield Over Each Pair.
SPOS Aluminum Foil/Polyester Shield Over Each Pair & Overall.
STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

PF

PLENUM CABLE PRODUCT FINDER

NO. OF COND.	24 AWG			22 AWG			20 AWG			18 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
2	8112 *	(BR)	U-10	11400F 11400SF 11100 8122 *	 (AF) (BR)	U-1 U-2 U-8 U-10	11420F 11420SF 11250 11250S 8132 *	 (AF) (AF) (BR)	U-1 U-2 U-4 U-5 U-10	11440F 11440SF 11260 11260S 8142 *	 (AF) (AF) (BR)	U-1 U-2 U-4 U-5 U-10
3	8113 *	(BR)	U-10	11800F 11800SF 8123 *	 (AF) (BR)	U-1 U-2 U-10	11801 11801SF 8133 *	 (AF) (BR)	U-1 U-2 U-10	11802F 11802SF 8143 *	 (AF) (BR)	U-1 U-2 U-10
4	11105 8114 *	 (BR)	U-8 U-10	11401F 11401SF 11102 8124 *	 (AF) (BR)	U-1 U-2 U-8 U-10	11421F 11421SF 11251 11251S 8134 *	 (AF) (AF) (BR)	U-1 U-2 U-4 U-5 U-10	11441F 11441SF 11261 112615 8144 *	 (AF) (AF) (BR)	U-1 U-2 U-4 U-S U-10
6				11402F 11402SF	 (AF)	U-1 U-2	11422F 11422SF 11252 11252S	 (AF) (AF)	U-1 U-2 U-4 U-5	11442F 11442SF 11262 11262S	 (AF) (AF)	U-1 U-2 U-4 U-5
8				11403F 11403SF	 (AF)	U-1 U-2	11423F 11423SF	 (AF)	U-1 U-2	11443F 11443SF	 (AF)	U-1 U-2
10				11404F 11404SF	 (AF)	U-1 U-2	11424F 11424SF	 (AF)	U-1 U-2	11444F 114445F	 (AF)	U-1 U-2
12										1144SF 11445SF	 (AF)	U-1 U-2

AF Aluminum Foil/Polyester Shield Overall.
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SP Aluminum Foil/Polyester Shield Over Each Pair.
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STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

* NOTE: Not Considered Plenum Cable.

Custom Cable Corp.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989
www.customwireandcable.com • email: sales@customwireandcable.com

NO. OF COND.	16 AWG P/N	SHIELD	PAGE	14 AWG P/N	SHIELD	PAGE	12 AWG P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
2	11460F		U-1	11814F		U-1	11815F		U-1			
	11460SF	(AF)	U-2	11814SF	(AF)	U-2	11815SF	(AF)	U-2			
	11270		U-4	11280		U-4	11290		U-4			
	11270S	(AF)	U-5	11280S	(AF)	U-5	11290S	(AF)	U-5			
	8152 *	(BR)	U-10	8162 *	(BR)	U-10	8172 *	(BR)	U-10			
3	11803F		U-1	11804F		U-1	11805F		U-1			
	11803SF	(AF)	U-2	11804SF	(AF)	U-2	11805SF	(AF)	U-2			
	8153 *	(BR)	U-10	8163 *	(BR)	U-10	8173 *	(BR)	U-10			
4	11461F		U-1	11281		U-4	11291		U-4			
	11461SF	(AF)	U-2	11281S	(AF)	U-5	11291S	(AF)	U-5			
	11271		U-4	11041	(2PR)	U-6	11061	(2PR)	U-6			
	11271S	(AF)	U-5	8164 *	(BR)	U-10	8174 *	(BR)	U-10			
	8154 *	(BR)	U-10									
6	11462F		U-1	11282		U-4	11292		U-4			
	11462SF	(AF)	U-2	11282S	(AF)	U-5	11292S	(AF)	U-5			
	11272		U-4									
	11272S	(AF)	U-5									
8	11463F		U-1									
	11463SF	(AF)	U-2									
10	11464F		U-1									
	11464SF	(AF)	U-2									

PF

AF Aluminum Foil/Polyester Shield Overall.
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STOS Aluminum Foil/Polyester Shield Over Each Triad & Overall.

* NOTE: Not Considered Plenum Cable.

PLENUM CABLE PRODUCT FINDER

NO. OF PAIRS	24 AWG			22 AWG			18 AWG			16 AWG		
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
1				11554	(SP)	U-3	11001S	(AF)	U-7	11020 11020S	 (AF)	U-6 U-7
2	32150 33500 35402 11595	 (AF)	T-11 T-11a T-12 U-9	32170 11555	 (SP)	T-11 U-3	11002 11002S	 	U-6 U-7	11021 11021S	 (AF)	U-6 U-7
3	32151 33501 35403 11596	 (AF)	T-11 T-11a T-12 U-9	32171 11552 11556 11592	 (SP) (SP) (AF)	T-11 U-3 U-3 U-9				11002 11002S	 (AF)	U-6 U-7
4	32152 33502 35401 35411 36000 36001 36050 11597	 (AF) (AF)	T-11 T-11a T-12 T-12 T-13 T-13 T-14 U-9	32172 11593	 (AF)	T-11 U-9						
6	32153 33503 11598	 (AF)	T-11 T-11a U-9	32173 11553 11593	 (SP) (AF)	T-11 U-3 U-9						
12	32155 33504 11599	 	T-11 T-11a U-9	32174		T-11						
25	32154 33505 35407	 	T-11 T-11a T-12	32175		T-11						
28-400	32156 32157 32158 32159 32160 33506 33507	 	T-11 T-11 T-11 T-11 T-11 T-11a T-11a	32176 32177	 	T-11 T-11						

NO. OF PAIRS	14 AWG			12 AWG			10 AWG					
	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE	P/N	SHIELD	PAGE
1	11040 11040S	 (AF)	U-6 U-7	11060 11060S	 (AF)	U-6 U-7	11080 11080S	 (AF)	U-6 U-7			
2	11041 11041S	 (AF)	U-6 U-7	11061 11061S	 (AF)	U-6 U-7						

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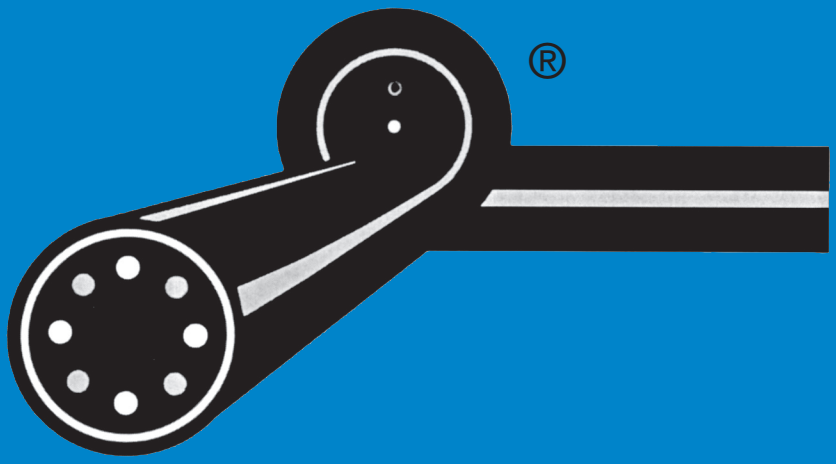
TECHNICAL SECTION



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Conversion Factors

LENGTH			AREA			METRIC PREFIXES	
inch	x 25.40	= millimeters	sq. inch	x 6.452	= sq. centimeter	millimeter	mm
millimeters	x 0.0397	= inches	sq. centimeter	x 0.1550	= sq. inch	centimeter	cm
feet	x 0.3048	= meters	sq. foot	x 0.0929	= sq. meter	meter	m
meters	x 3.281	= feet	sq. meter	x 10.76	= sq. foot	kilometer	km
miles	x 1.609	= kilometers	**MASS**			gram	g
kilometers	x 0.6214	= miles	ounce	x 28.35	= gram	kilogram	kg
ohms/kilometer	x 0.3048	= ohms/1000 ft.	gram	x 0.0352	= ounce	sq. millimeter	mm^2
ohms/1000 ft.	x 3.2808	= ohms/kilometer	pound	x 0.4536	= kilogram	sq. centimeter	cm^2
			kilogram	x 2.205	= pound	sq. meter	m^2
			kilogr./kilom.	x 0.6214	= pounds/1000 ft.	sq. kilometer	km^2
			pounds/1000 ft.	x 1.4881	= kilogr./kilom.		

American to Metric Cable Sizes
Cross Reference AWG To MM^2

AWG	MM2	AWG	MM2
30	0.05	6	16
28	0.08	4	25
26	0.14	2	35
24	0.25	1	50
22	0.34	2/0	70
21	0.38	3/0	95
20	0.50	4/0	120
18	0.75	300MCM	150
17	1.0	350MCM	185
16	1.5	500MCM	240
14	2.5	600MCM	300
12	4	750MCM	400
10	6	1000MCM	500
8	10		

Degrees Centigrade Versus Degrees Fahrenheit

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-80	-112.0	-20	-4.0	5	41.0	30	86.0	55	131.0	80	176.0	105	221.0	130	266.0	200	392
-70	-94.0	-19	-2.2	6	42.8	31	87.8	56	132.8	81	177.8	106	222.8	131	267.8	210	410
-60	-65.0	-18	-0.4	7	44.6	32	89.6	57	134.6	82	179.6	107	224.6	132	269.6	220	428
-50	-58.0	-17	1.4	8	46.4	33	91.4	58	136.4	83	181.4	108	226.4	133	271.4	230	446
-45	-49.1	-16	3.2	9	48.2	34	93.2	59	138.2	84	183.2	109	228.2	134	273.2	240	464
-40	-40.0	-15	5.0	10	50.0	35	95.0	60	140.0	85	185.0	110	230.0	135	275.0	250	482
-39	-38.2	-14	6.8	11	51.8	36	96.8	61	141.8	86	186.8	111	231.8	136	276.8	300	572
-38	-36.4	-13	8.6	12	53.6	37	98.6	62	143.6	87	188.6	112	233.6	137	278.6	350	662
-37	-34.6	-12	10.4	13	55.4	38	100.4	63	145.4	88	189.4	113	235.4	138	280.4	400	752
-36	-32.8	-11	12.2	14	57.2	89	102.2	64	147.2	89	192.2	114	237.2	139	282.2	500	932
-35	-31.0	-10	14.0	15	59.0	40	104.0	65	149.0	90	194.0	115	239.0	140	284.0	600	1112
-34	-29.2	-9	15.8	16	60.8	41	105.8	66	150.8	91	195.8	116	240.8	141	285.8	700	1292
-33	-27.4	-8	17.6	17	62.6	42	107.6	67	152.6	92	197.6	117	242.6	142	287.6	800	1472
-32	-25.6	-7	19.4	18	64.4	43	109.4	68	154.4	93	199.4	118	244.4	143	289.4	900	1652
-31	-23.8	-6	21.2	19	66.2	44	111.2	69	156.2	94	201.2	119	246.2	144	291.2	1000	1832
-30	-22.0	-5	23.0	20	68.0	45	113.0	70	158.0	95	203.0	120	248.0	145	293.0	1100	2012
-29	-20.2	-4	24.8	21	69.8	46	114.8	71	159.8	96	204.8	121	249.8	146	294.8	1200	2192
-28	-18.4	-3	26.6	22	71.6	47	116.6	72	161.6	97	206.6	122	251.6	147	296.6	1300	2372
-27	-16.6	-2	28.4	23	73.4	48	118.4	73	163.4	98	208.4	123	253.4	148	298.4	1400	2552
-26	-14.8	-1	30.2	24	75.2	49	120.2	74	165.2	99	210.2	124	255.2	149	300.2	1500	2732
-25	-13.0	0	32.0	25	77.0	50	122.0	75	167.0	100	212.0	125	257.0	150	302.0	1600	2912
-24	-11.2	1	33.8	26	78.8	51	123.8	76	168.8	101	213.8	126	258.8	160	320.0	1700	3092
-23	-9.4	2	35.6	27	80.6	52	125.6	77	170.6	102	215.6	127	260.6	170	338.0	1800	3272
-22	-7.6	3	37.4	28	82.4	53	127.4	78	172.4	108	217.4	128	262.4	180	356.0	1900	3452
-21	-5.8	4	39.2	29	84.2	54	129.2	79	174.2	104	219.2	129	264.2	190	374.0	2000	3632

Conversion Formula: °F = 9/5 (°C +32°) °C = 5/9 (°F -32°)

Technical Data

Conductor & Stranding Data

APPROX. O.D.	POUNDS PER 1000 FT.	CIRCULAR MILS	SIZE AWG/CM	CONCENTRATING STRAND					ROPE STRAND (FLEXIBLE)			
				CLASS AA	CLASS A	CLASS B	CLASS C	CLASS D	CLASS G	CLASS H	CLASS K 30 AWG (0.010")	CLASS M 34 AWG (0.0063")
.0050	.0757	25.00	36									
.0056	.0954	31.52	35									
.0063	.1203	39.75	34									
.0071	.1517	50.13	33									
.0080	.1913	63.21	32									
.0089	.2413	79.70	31									
.0100	.3042	100.5	30									
.0113	.3836	126.7	29									
.0126	.4837	159.8	28									
.0142	.6100	201.5	27									
.0159	.7692	254.1	26									
.0179	.9699	320.4	25									
.0201	1.223	404.0	24									
.0226	1.542	509.5	23									
.0254	1.945	642.4	22									
.0285	2.452	810.1	21									
0.0363	3.154	1,020	20			7	19				10	26
0.0456	5.015	1,620	18			7	19				16	41
0.0576	7.974	2,580	16			7	19				26	65
0.0726	12.68	4,110	14			7	19	37	49		41	104
0.0915	20.16	6,530	12			7	19	37	49		65	168
0.116	32.06	10,380	10			7	19	37	49		104	259
0.130	40.42	13,090	9			7	19	37	49	133		
0.146	51.0	16,510	8			7	19	37	49	133	168	420
0.184	80.9	26,240	6			7	19	37	49	133	266	665
0.232	129	41,740	4	3	7	7	19	37	49	133	420	1064
0.260	162	52,620	3	3	7	7	19	37	49	133	532	1323
0.292	205	66,630	2	3	7	7	19	37	49	133	665	1666
0.332	259	83,690	1	3	7	19	37	61	133	259	836	2107
0.373	326	105,600	1/0	7	7	19	37	61	133	259	1064	2646
0.419	411	133,100	2/0	7	7	19	37	61	133	259	1323	3325
0.470	518	167,800	3/0	7	7	19	37	61	133	259	1666	4256
0.528	653	211,600	4/0	7	7	19	37	61	133	259	2107	5320
0.575	772	250,000	250,000	12	19	37	61	91	259	427	2499	6384
0.630	925	300,000	300,000	12	19	37	61	91	259	427	2989	7581
0.681	1080	350,000	350,000	12	19	37	61	91	259	427	3458	8806
0.728	1236	400,000	400,000	19	19	37	61	91	259	427	3990	10,101
0.813	1542	500,000	500,000	19	37	37	61	91	259	427	5054	12,691
0.893	1850	600,000	600,000	37	37	61	91	127	427	703	5985	14,945
0.998	2316	750,000	750,000	37	61	61	91	127	427	703	7581	18,788
1.152	3086	1,000,000	1,000,000	37	61	61	91	127	427	703	10,101	25,193

TS

Methods Of Stranding

DIAMETER IN INCHES	APPROX WT LB/MFT	SIZE		NUMBER OF STRANDS (CONCENTRIC)						SIZE		SIZE OF INDIV. STRAND	
		AWG	CIRCULAR MILES	7	19	37	49	61	91	AWG	CIRCULAR MILES	NO. 30	NO. 34
				SIZE OF INDIV. STRAND NO. AWG								NO. OF STRANDS	
.0201	1.22	24	404	32						24	404	4	11
.02534	1.94	22	642	30						22	642	7	17
.036	3.15	20	1,020	28						20	1,020	10	26
.046	5.00	18	1,620	26						18	1,620	16	41
.058	8.00	16	2,580	24						16	2,580	26	65
.073	12.6	14	4,110	22-	27	29				14	4,110	41	104
.092	20.0	12	6,530	20-	25	28+	29			12	6,530	65	165
.116	32	10	10,380	18-	23+	26+	27			10	10,380	104	259
.146	51	8	16,510	16-	21+	24+	25	26+		8	16,510	165	420
.184	81	6	26,240	14-	19+	22+	23	24	26+	6	26,240	262	686
.232	129	4	41,740	12-	17+	20+	21	22+	24	4	41,740	418	1029
.260	162	3	52,620	12+	16+	19+	20	21+	23+	3	52,620	527	1323
.292	205	2	66,360	10-	15	18+	19	20+	22+	2	66,360	663	1666
.332	259	1	83,690	9	14+	16-	18+	19+	21+	1	83,690	836	2107
.373	326	1/0	105,600	8	13	16+	17+	18+	19-	1/0	105,600	1056	2646
.418	411	2/0	133,100	8+	12+	15	16+	17+	18-	2/0	133,100	1330	3332
.470	518	3/0	167,800	6-	11+	14+	15+	16+	18+	3/0	167,800	1677	4256
.528	653	4/0	211,600	5-	10+	13	14+	15+		4/0	211,600	2116	5320
.575	772		250,000		9	12+	13+	14			250,000	2500	6251
.630	925		300,000		8-	11	12-	13			300,000	3000	7581
.681	1080		350,000		8+	10-	12+	13+			350,000	3500	8806
.728	1236		400,000		7-	10+	11	12			400,000	4000	10108
.772	1390		450,000		6-	9-	11+	11-			450,000	4500	11396
.813	1544		500,000		6+	9+	10	11+			500,000	5000	12691
.893	1853		600 000			8		10			600,000	6000	15007
.964	2161		700 000			7-					700,000	7000	17507
.998	2316		750,000			7		9	11		750,000	7500	18788
1.031	2470		800,000								800,000	8000	20069
1.094	2779		900,000								900,000	9000	22631
1.152	3088		1,000,000					8	10		1,000,000	10000	25193

TS

Weight Of Bare Aluminum Conductor & Copper Equivalent

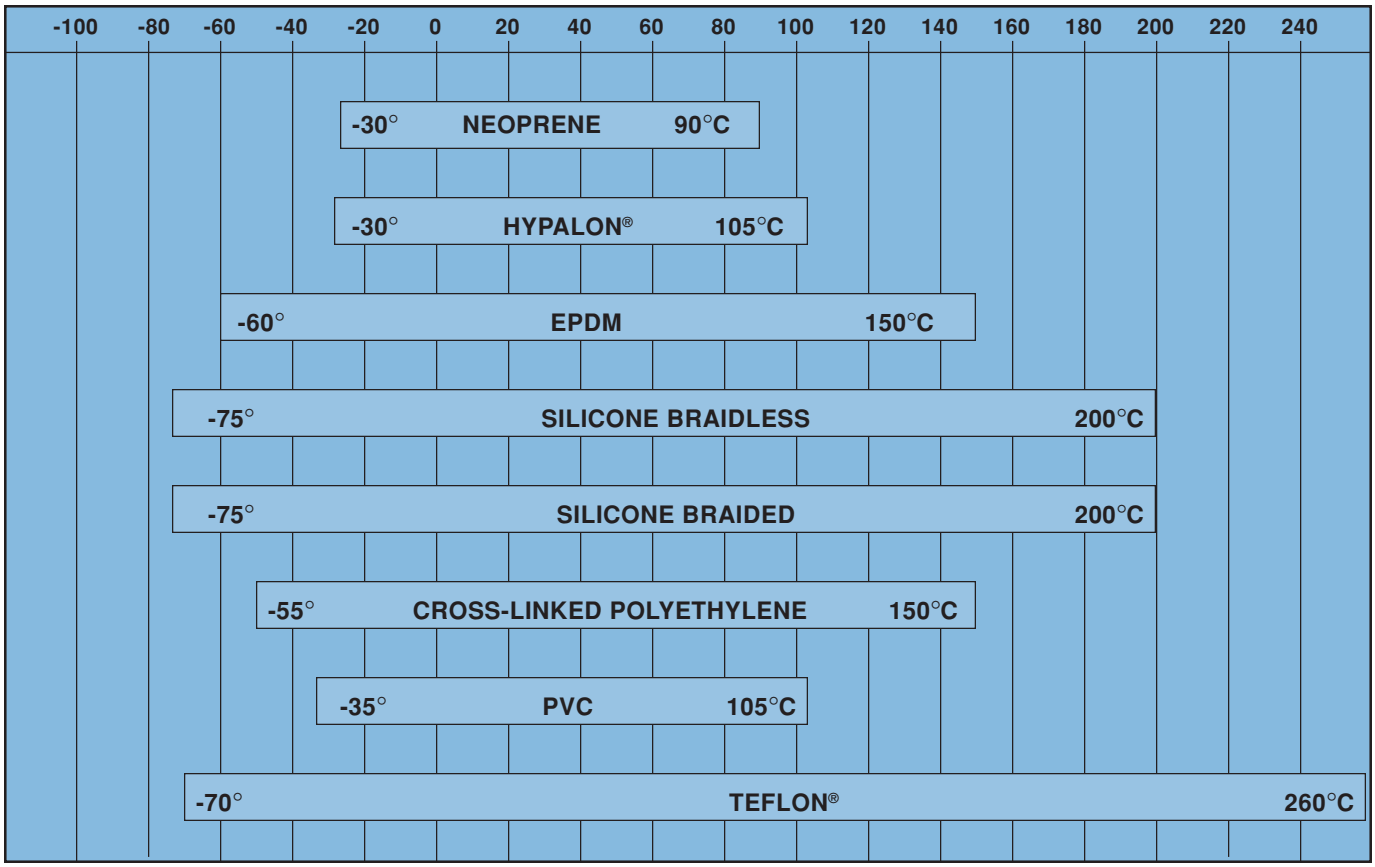
SIZE AWG	APPROX. NET WT. LBS/MFT	COPPER EQUIVALENTS
6	24.6	8
4	39.2	6
3	49.4	5
2	62.3	4
1	78.5	3
1/0	99.1	2
2/0	124.9	1
3/0	157.5	1/0
4/0	198.6	2/0
266,800cm (7)	250.4	3/0
266,800cm (19)	250.4	3/0
336,400cm	315.8	4/0
397,500cm	372.5	250,000cm
477,000cm (19)	447.8	300,000cm
477,000cm (37)	447.8	300,000cm
556,500cm (19)	522.0	350,000cm
556,500cm (37)	522.0	350,000cm
636,000cm	597.	400,000cm
715,500cm (37)	672.	450,000cm
715,500cm (61)	672.	450,000cm
795,000cm (37)	746.	500,000cm
795,000cm (61)	746.	500,000cm
874,000cm	821.	550,000cm
874,500cm	821.	550,000cm
954,000cm (37)	896.	600,000cm
954,000cm (61)	896.	600,000cm
1,033,500cm (37)	970.	650,000cm
1,033,500cm (61)	970.	650,000cm
1,113,000cm	1045.	700,000cm
1,912,500cm	1119.	750,000cm
1,272,000cm	1193.	800,000cm
1,351,500cm	1268.	850,000cm
1,431,000cm	1343.	900,000cm
1,510,500cm	1418.	950,000cm
1,590,000cm (61)	1493.	1,000,000cm
1,590,000cm (91)	1493.	1,000,000cm

Insulation Characteristics

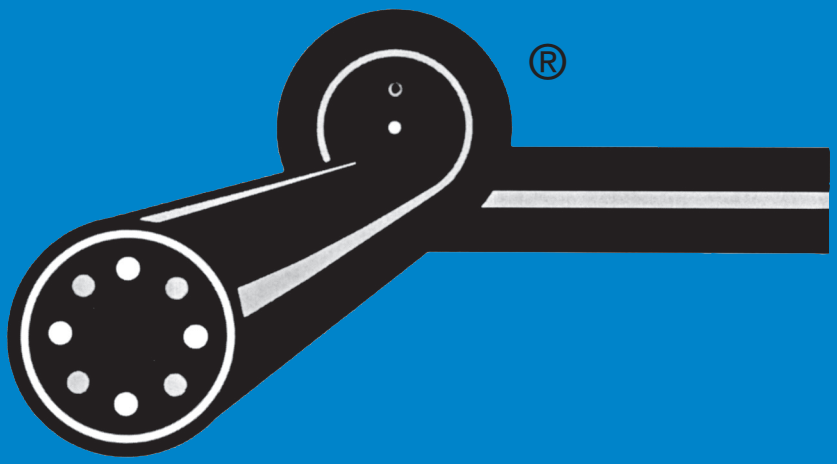
INSULATION	TEMP. RATING	DIELECTRIC STRENGTH (VOLTS MIL)	OIL RESISTANCE	OZONE RESISTANCE	ABRASION	FLAME RESISTANCE
Neoprene	90°C	300	Good	Good	Good	Good
PE	90°C	600	Good	Excellent	Fair - Good	Poor
PVC	80°C 105°C	600	Excellent	Excellent	Good	Excellent
Nylon	105°C	600	Excellent	Excellent	Excellent	Poor
Hypalon®	105°C	500	Good	Good	Good	Good
Cross-Linked Polyethylene	105°C 125°C 150°C	800	Fair	Good	Good	Good
Hermetic	125°C	2500	Excellent	Good	N/A	Poor
EPDM	125°C 150°C	400	Fair - Poor	Good	Good	Fair
Silicone Rubber	150°C 200°C	300	Fair	Excellent	Poor	Good
Silicon Rubber Glass Braid	150°C 200°C	300	Fair	Excellent	Excellent	Excellent
Teflon®	150°C 200°C 260°C	600	Excellent	Excellent	Excellent	Excellent

TS

Nominal Temperature Operating Ranges (°C)



CROSS REFERENCE GUIDE



XR

CROSS REFERENCE GUIDE

ALPHA TO CUSTOM CABLE CATALOG NUMBER

ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER
A286	1018	A1234	1061	A1327/19*	2619	A1713	7703	A1898/7*	1407	A2265	7852	A2827/6	8136
A289	1019	A1235	1062	A1328	2623	A1715	7704	A1898/9*	1409	A2268/3	7863	A2827/7	8137
A295	1017	A1239	1063	A1329/41	2641	A1716	7705	A1899*	1502	A2268	7862	A2827/8	8138
A296	1016	A1240	1064	A1329	2627	A1717	7706	A1899/3*	1503	A2401	5100	A2827	8131
A297	1015	A1241	1065	A1330	2651	A1719	7708	A1932/3	9051	A2402	5102	A2829/2	8142
A298	1014	A1242/4	1067	A1341	451	A1721	7710	A1932	9050	A2403	5103	A2829/3	8143
A299/1	1012	A1242	1066	A1342	452	A1723	7712	A1933/3	9054	A2404	5104	A2829/4	8144
A299/2	1011	A1243/2*	5312	A1343	453	A1726	7715	A1933	9053	A2411	5112	A2829/5	8145
A299/3	1010	A1243/3*	5321	A1344	454	A1728	7720	A1934/3	9013	A2412	5320	A2829/6	8146
A299	1013	A1244	1650	A1345	455	A1736	7602	A1934/4	9014	A2413	5113	A2829/7	8147
A1064	1504	A1245	1653	A1346	456	A1737	7603	A1934	9012	A2421	5120	A2829/8	8148
A1065	1505	A1246	1654	A1381	401	A1738	7604	A1935/3	9016	A2422	5122	A2829	8141
A1067	1507	A1247/10	1660	A1382	402	A1741	7612	A1935/4	9017	A2423	5123	A3050	601
A1069	1509	A1247/12	1662	A1383	403	A1742	7613	A1935	9015	A2424	5124	A3051	602
A1072	1512	A1247/15	1665	A1384	404	A1743	7614	A1936/3	9019	A2433	5133	A3053	603
A1075	1515	A1247/20	1670	A1385	405	A1746	7622	A1936/4	9020	A2442	5142	A3055	604
A1079	1519	A1247/6	1656	A1386	406	A1747/4	7624	A1936	9018	A2444	5152	A3057	605
A1085	1525	A1247/7	1657	A1387	457	A1747	7623	A1937/3	9022	A2450	6338	A3070	609
A1131	1402	A1247/8	1658	A1388	458	A1748	7632	A1937/4	9023	A2451	6351	A3071	610
A1132	2902	A1247	1655	A1389/0	463	A1749	7633	A1937	9021	A2452	6352	A3073	611
A1133	2903	A1250/18	7500	A1389/00	464	A1750	7642	A1938/3	9025	A2461	5311	A3075	612
A1134	2904	A1250	7502	A1389/000	465	A1751	7643	A1938/4	9026	A2462	5310	A3077	613
A1135	2905	A1251	7503	A1389/0000	466	A1760	7652	A1938	9024	A2464*	5314	A3079	614
A1136	2906	A1252	7504	A1389/1	460	A1761	7653	A1952/3	9102	A2465*	5322	A3080	615
A1138	2908	A1253	7505	A1389/2	461	A1854/19	506	A1952	9101	A2466*	5313	A3081	616
A1139	2909	A1254	7506	A1389/4	462	A1854	505	A1953/3	9105	A2471	5132	A3220	8321
A1142	2912	A1255/10	7510	A1389	459	A1855/19	508	A1953	9104	A2821/2	8112	A3221	8322
A1145	2915	A1255/12	7512	A1400	7202	A1855	507	A2160	1075	A2821/3	8113	A3222	8323
A1149	2919	A1255/15	7515	A1401	7203	A1856/19	510	A2162	1076	A2821/4	8114	A3223	8324
A1151/15C	1215	A1255/20	7520	A1402	7204	A1856	509	A2163	1077	A2821/5	8115	A3230	8331
A1172C	1202	A1255/8	7508	A1404	7206	A1857/19	512	A2164	1078	A2821/6	8116	A3231	8332
A1173C	1203	A1255	7507	A1410	7302	A1857	511	A2166	1079	A2821/7	8117	A3232	8333
A1174C	1204	A1274	1604	A1411	7303	A1858/19	513	A2167	1080	A2821/8	8118	A3233	8334
A1175C*	1205	A1275	1605	A1420	7402	A1859/19	514	A2168	1081	A2821	8111	A3240	8341
A1176C*	1206	A1277	1607	A1450/16	7102	A1891/3	1603	A2170	1082	A2823/2	8172	A3241	8342
A1177C*	1207	A1279	1609	A1450	7002	A1891	1602	A2171/1	1084	A2823/3	8173	A3242	8343
A1178C*	1208	A1282	1612	A1451/16	7103	A1892/3	1633	A2171	1083	A2823/4	8174	A3243	8344
A1179C*	1209	A1285	1615	A1451	7003	A1892	1632	A2172	1085	A2823	8171	A3245	8351
A1180C*	1210	A1300	2501	A1452/16	7104	A1895*	1302	A2173	1086	A2824/2	8122	A3246	8352
A1181/20C*	1220	A1302	2502	A1452	7004	A1896*	1303	A2174	1087	A2824/3	8123	A3247	8353
A1181/25C*	1225	A1304	2503	A1454/16	7106	A1896/10*	1310	A2175/1	1089	A2824/4	8124	A3248	8354
A1181/30C*	1230	A1305	2504	A1454	7006	A1896/12*	1312	A2175	1088	A2824/5	8125	A3492	6550
A1181/40C*	1240	A1306	2505	A1456/16	7108	A1896/15*	1315	A2176	1090	A2824/6	8126	A3493	6551
A1181/50C*	1250	A1307/9	2509	A1456	7008	A1896/4*	1304	A2254/3	7803	A2824/7	8127	A3494	6552
A1181/60C*	1260	A1307	2506	A1458	7010	A1896/5*	1305	A2254/4	7804	A2824/8	8128	A3495	6553
A1181C*	1212	A1308/11	2511	A1459/15	7015	A1896/6*	1306	A2254/6	7806	A2824	8121	A3496	6554
A1203	22749	A1309/15	2515	A1459/20	7020	A1896/7*	1307	A2254	7802	A2825/2	8162	A3497	6555
A1204	22750	A1309	2513	A1459	7012	A1896/8*	1308	A2255	7800	A2825/3	8163	A3498	6556
A1221	1051	A1311	2519	A1469	9154	A1896/*	1309	A2256/3	7823	A2825/4	8164	A3500/10	6557
A1222	1052	A1312	2523	A1550	710	A1897*	1400	A2256/4	7824	A2825	8161	A3500/12	6558
A1223	1053	A1313	2527	A1551	711	A1898*	1403	A2256/6	7826	A2826/2	8152	A3500/15	6559
A1224	1054	A1317	2602	A1553	712	A1898/12*	1412	A2256	7822	A2826/3	8153	A3500/18	6560
A1229	1055	A1318	2603	A1555	713	A1898/15*	1415	A2258*	7832	A2826/4	8154	A3500/25	6561
A1230	1056	A1319	2604	A1557	714	A1898/19*	1419	A2258/3*	7833	A2826	8151	A3706	9375
A1231	1057	A1322	2606	A1559	715	A1898/25*	1425	A2258/4*	7834	A2827/2	8132	A3712	9376
A1232	1058	A1323	2609	A1560	716	A1898/4*	1404	A2260*	7842	A2827/3	8133	A3718	9377
A1233/2	1059	A1325	2612	A1710*	7900	A1898/5*	1405	A2260/3*	7843	A2827/4	8134	A3725	9378
A1233	1060	A1327*	2615	A1712	7702	A1898/6*	1406	A2265/3	7853	A2827/5	8135	A3750	9379

This cross reference guide should be used in conjunction with the product information in Custom Cable Corp's Catalog. It should be used for suggested alternative items which are functionally equal. Constructional differences are not indicated. Custom Cable Corp. is not responsible for variances due to competitor and industry constructional changes or agency updates.

Custom Cable Corp.

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ALPHA TO CUSTOM CABLE CATALOG NUMBER

ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER	ALPHA PART NUMBER	CUSTOM CATALOG NUMBER
A3806	9381	A4708	9181	A5251	5777	A5481	6261	A5620B1624	3878	A5879/12	883	A6120	9358
A3812	9382	A4709	9182	A5252	5779	A5482	6262	A5620B1802	3832	A5879/8	885	A6140	9852
A3818	9383	A4710	9183	A5253	5781	A5483	6263	A5620B1804	3834	A5879	882	A6142	9856
A3825	9384	A4712	9184	A5254	5784	A5484	6264	A5620B1808	3838	A5902	6302	A6143	9857
A3850	9385	A4805	9200	A5256	5791	A5485	6265	A5620B1812	3842	A5905	6304	A6144	9860
A3906	8556	A4806	9201	A5257	5795	A5489/15	6275	A5620B1820	3846	A5906	6306	A6145	9861
A3916	8557	A4807	9202	A5258	5797	A5489/19	6279	A5620B1824	3848	A5909/19	6319	A6146	9862
A3918	8558	A4808	9203	A5283	2803	A5489/27	6283	A5620B1836	3850	A5909	6309	A6148	9865
A3925	8559	A4809	9204	A5286	2806	A5489/4	6271	A5620B2002	3802	A6000	6503	A6149	9866
A3950	8560	A4810	9205	A5289/15	2815	A5489/51	6285	A5620B2004	3804	A6002	6506	A6150	9867
A4006	8666	A4812	9206	A5289	2809	A5489	6269	A5620B2008	3808	A6004	6509	A6151	9868
A4012	8667	A4816	9208	A5300	5651	A5600B1601	4461	A5620B2012	3812	A6006	6511	A6202	6570
A4018	8668	A4818	9210	A5302	5655	A5600B1801	4431	A5620B2016	3814	A6008	6515	A6203	6571
A4025	8669	A4825	9220	A5308	5671	A5600B2001	4401	A5620B2020	3816	A6010	6603	A6224C	6572
A4050	8670	A4826	9221	A5311	6474	A5606B1601	4631	A5620B2024	3818	A6012	6606	A6225C	6573
A4202	22102	A4828	9223	A5312	5679	A5606B1801	4601	A5620B2036	3820	A6014	6609	A6226C	6574
A4203	22103	A4830	9224	A5313	5681	A5610B1601	4460	A5626B1602	4832	A6016	6611	A6227C	6575
A4204	22104	A5091/15	6315	A5314	5684	A5610B1602	4462	A5626B1604	4834	A6017	6612	A6228C	6576
A4205	22105	A5093	6003	A5316	5691	A5610B1604	4464	A5626B1616	4844	A6018	6615	A6230/12C	6578
A4207	22107	A5094	6004	A5318	5698	A5610B1608	4468	A5626B1620	4846	A6019	6617	A6230/15C	6579
A4209	22109	A5098	6008	A5320	5701	A5610B1612	4472	A5626B1624	4848	A6020	6619	A6230/18C	6580
A4212	22112	A5100	6010	A5322	5705	A5610B1616	4474	A5626B1802	4802	A6022	6627	A6230/25C	6581
A4302	22152	A5192	6060	A5323	5707	A5610B1624	4478	A5626B1804	4804	A6023	6803	A6230C	6577
A4303	22153	A5193	6061	A5324	5709	A5610B1801	4430	A5626B1808	4808	A6024	6806	A6301	6592
A4304	22154	A5194	6062	A5325	5712	A5610B1802	4432	A5630B1601	4561	A6025*	6809	A6304	6594
A4305	22155	A5196	6063	A5326	5715	A5610B1804	4434	A5636B1601	4731	A6026	6812	A6305	6005
A4307	22157	A5198	6064	A5331	5877	A5610B1808	4438	A5636B1801	4701	A6027	6815	A6306	6006
A4309	22159	A5199/10	6065	A5332	5879	A5610B1812	4442	A5640B1601	4560	A6033	6703	A6307	6015
A4312	22162	A5199/15	6070	A5333	5731	A5610B1820	4446	A5640B1801	4530	A6036	6706	A6308	6020
A4402	22190	A5199/20	6075	A5334	5884	A5610B1824	4448	A5640B2001	4500	A6039	6709	A6309	6025
A4403	22191	A5199/25	6080	A5335	5888	A5610B2001	4400	A5646B1401	4760	A6041	6711	A6310	6030
A4404	22192	A5199/30	6082	A5336	5891	A5610B2002	4402	A5646B1601	4730	A6042	6712	A6311	6040
A4405	22193	A5199/40	6084	A5337	5895	A5610B2004	4404	A5646B1801	4700	A6045	6715	A6312	6050
A4407	22194	A5199/50	6086	A5338	5898	A5610B2008	4408	A5650B2004	3904	A6059/11	3611	A6314	6783
A4409	22195	A5199/60	6088	A5340	5901	A5610B2010	4410	A5650B2008	3908	A6059/15	3615	A6315	6786
A4412	22197	A5203	5507	A5341	5903	A5610B2012	4412	A5650B2012	3912	A6059/19	3619	A6327	6450
A4505	9120	A5207	5515	A5343	5907	A5610B2016	4414	A5650B2024	3918	A6059/27	3627	A6328	6451
A4506	9121	A5208	5521	A5344	5909	A5610B2020	4416	A5656B1604	4934	A6059/51	3651	A6329	6452
A4508	9123	A52l5	5538	A5345	5912	A5610B2024	4418	A5656B1608	4936	A6069/11	3711	A6330	6453
A4510	9124	A5218	5548	A5347	5918	A5610B2036	4420	A5656B1612	4942	A6073	6403	A6331	6454
A4605	9150	A5222	5555	A5348	5921	A5610B2050	4425	A5656B1801	4904	A6076	6406	A6332*	6455
A4606	9151	A5225	5562	A5353	5931	A5616B1401	4660	A5854/7	856	A6079/11	6411	A6333*	6456
A4607	9152	A5226	5565	A5357	5945	A5616B1601	4630	A5854	857	A6079/12	6412	A6334*	6457
A4608	9153	A5230	5725	A5358	5948	A5616B1602	4632	A585517	858	A6079/15	6415	A6335*	6458
A4610	9155	A5234	5734	A5471	6201	A5616B1604	4634	A5855	859	A6079/17	6417	A6336*	6460
A4612	9156	A5235	5738	A5472	6202	A5616B1608	4638	A5856/7	860	A6079/19	6419	A6339*	6470
A4614	9157	A5236	5741	A5473	6203	A5616B1612	4642	A5856	861	A6079/27	6427	A6340*	6471
A4616	9158	A5237	5745	A5474	6204	A5616B1624	4648	A5857	862	A6079	6409	A6341*	6472
A4620	9160	A5238	5748	A5475	6205	A5616B1801	4600	A5858	863	A6084	6591	A6342*	6473
A4622	9161	A5241	5753	A5476	6206	A5616B1802	4602	A5859/10	866	A6089	6593	A6343*	6474
A4624	9162	A5242	5755	A5477	6207	A5616B1804	4604	A5859/12	865	A6112	9350	A6344*	6475
A4630	9166	A5243	5757	A5478	6208	A5616B1808	4608	A5859	864	A6113	9351	A6345*	6476
A4637	6167	A5244	5759	A5479	6209	A5616B1812	4612	A5874	875	A6114	9352	A6346*	6477
A4650	9170	A5245	5762	A5480/15	6215	A5620B1602	3862	A5875	877	A6115	9353	A6347	6478
A4660	9171	A5246	5765	A5480/19	6219	A5620B1604	3864	A5876	879	A6116	9354	A6348	6480
A4705	9178	A5247	5768	A5480/25	6225	A5620B1608	3868	A5877	880	A6117	9355	A6351	6490
A4706	9179	A5248	5771	A5480/50	6250	A5620B1612	3872	A5878	881	A6118	9356	A6352	6491
A4707	9180	A5250	5775	A5480	6210	A5620B1616	3874	A5879/10	884	A6119	9357	A6353	6492

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A6354	6493	A7120	9585	A7261	9785	A7523	9423	A7591	9524	A7846	13106	A9159	11530
A6355	6494	A7121	9586	A7262	9786	A7524	9424	A7700	9278	A7847	13107	A9174	374
A6356	6495	A7122	9587	A7263	9787	A7525	9438	A7701	9279	A7848	13108	A9178B	278B
A6357	6496	A7123	9588	A7266	9942	A7527	9439	A7702	9280	A7849	13109	A9179B	279B
A6358	6497	A7124	9590	A7267	9948	A7528	9440	A7704	9282	A7850	13110	A9180B	280B
A6359	6498	A7130	670	A7268	9949	A7529	9441	A7705	9283	A7851	13111	A9188A	288A
A6412*	6565	A7131	671	A7400	9325	A7530	9442	A7706	9284	A7852	13112	A9195A	295A
A6413*	6566	A7132	672	A7402	9326	A7531	9443	A7707	9285	A7853	13120	A9196A	296A
A6414*	6567	A7133	673	A7403	9327	A7532	9444	A7708	9286	A7854	13121	A9213	313
A6417	3402	A7134	674	A7404	9328	A7533	9445	A7709	9287	A7855	13122	A9214	314
A6418	3403	A7149	650	A7405	9329	A7534	9446	A7728	9258	A7856	13123	A9223	323
A6419	3404	A7150	651	A7406	9330	A7536	9448	A7730	9260	A7857	13124	A9304C	33252
A6420	3406	A7151	652	A7408	9331	A7539	9451	A7732	9262	A7858	13125	A9310	8040
A6421	3409	A7153	653	A7410	9332	A7540/30	9466	A7735	9264	A7859	13126	A9311	8041
A6427	3502	A7155	654	A7411	9333	A7540/37	9473	A7760	9266	A7860	13127	A9320	8042
A6428	3503	A7157	655	A7412	9334	A7543	9455	A7761	9267	A7861	13128	A9321	8043
A6429	3504	A7161/24	656	A7413	9335	A7544	9456	A7762	9268	A7862	13129	A9360	8045
A6430	3506	A7161	657	A7415	9336	A7548	9460	A7765	9271	A7863	13130	A9390	8048
A6431	3509	A7163	658	A7416	9338	A7549	9461	A7766	9272	A7864	13131	A9404C	34400
A6433	3515	A7170	9620	A7417	9340	A7550	9476	A7767	9273	A7865	13132	A9404F	34401
A6434	3602	A7171	9621	A7418	9341	A7552	9477	A7768	9274	A7866	13140	A9746	308B
A6435	3603	A7172	9622	A7430	21005	A7553	9478	A7769	9275	A7867	13141	A9804	306D
A6436	3604	A7173	9623	A7431	21006	A7554	9479	A7770	9250	A7868	13142	A9804	8013
A6437	3606	A7174	9624	A7432	21007	A7555	9480	A7771	9251	A7869	13143	A9805	362B
A6438	3609	A7175	9625	A7434	21008	A7556	9481	A7772	9252	A7870	13144	A9809	375
A6442	3702	A7176	9626	A7435	21009	A7557	9482	A7773	9254	A7871	13145	A9814	8541
A6443	3703	A7177	9627	A7436	21010	A7558	9483	A7774	9255	A7872	13146	A9815	8540
A6444	3704	A7178	9628	A7437	21011	A7559	9484	A7775	9256	A7873	13147	A9816	8542
A6445	3706	A7179	9630	A7438	21012	A7561	9486	A7776	9257	A7874	13148	A9817	8543
A6446	3709	A7215	9915	A7439	21013	A7564	9489	A7778	9259	A7875	13149	A9818	8544
A6448	3715	A7216	9916	A7500/30	9429	A7568	9493	A7800	9295	A7876	13150	A9819C	8549
A7100	9540	A7217	9917	A7500/37	9436	A7569	9494	A7801	9296	A7877	13151	A9830	359
A7103	9542	A7218	9920	A7500	9401	A7573	9498	A7802	9297	A7878	13152	A9840	359A
A7104	9543	A7219	9921	A7502	9402	A7574	9499	A7804	9299	A8486	6266	A9845	8547
A7105	9544	A7250	9740	A7503	9403	A7575	9504	A7805	9300	A9008A	308A	A9847	311B
A7106	9545	A7251	9741	A7504	9404	A7576	9511	A7806	9301	A9008	308	A9852	8020
A7107	9546	A7252	9742	A7505	9405	A7580	9514	A7807	9302	A9009B	309B	A9853	8022
A7108	9547	A7253	9750	A7506	9406	A7582	9515	A7808	9303	A9011A	311A	A58114	11401SF
A7109	9548	A7254	9751	A7507	9407	A7583	9516	A7809	9304	A9011	311	A58133	11802SF
A7110	9550	A7255	9775	A7508	9408	A7584	9517	A7840	13100	A9058A	358A	A58134	11441SF
A7115	9580	A7256	9776	A7509	9409	A7585	9518	A7841	13101	A9058AC	358	A58136	11442SF
A7116	9581	A7257	9780	A7511	9411	A7586	9519	A7842	13102	A9058C	358C	A58142	11460SF
A7117	9582	A7258	9782	A7514	9414	A7587	9520	A7843	13103	A9058	358B	A58431	11440SF
A7118	9583	A7259	9783	A7518	9418	A7588	9521	A7844	13104	A9059B	359B		
A7119	9584	A7260	9784	A7519	9419	A7589	9522	A7845	13105	A9062A	362		

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B1030A	4460	B1091A	3816	B3116	9582	B8425	7505	B8724	5314	B9161	2908	B9411	3242
B1031A	4560	B1092A	3914	B8011	1019	B8426	7506	B8728	5312	B9207	8544	B9412	3252
B1032A	4430	B1093A	4904	B8012	1018	B8427	7507	B8735	7603	B9231	375	B9418	5124
B1033A	4400	B1095A	4912	B8013	1017	B8428	7002	B8737	7802	B9243	359E	B9420	9150
B1034A	4561	B1096A	4918	B8019	1016	B8442	1202	B8739	7800	B9248	306D	B9421	1208
B1036A	4530	B1097A	4934	B8020	1015	B8443	1203	B8740	2501	B9248	8013	B9422	9152
B1038A	4825	B1098A	4936	B8021	1014	B8444	1204	B8741	2502	B9250	8542	B9423	1209
B1039A	4834	B1099A	4942	B8023	1012	B8445	1205	B8742	2503	B9251	308A	B9424	9154
B1041A	4838	B1100A	4948	B8024	1011	B8451	5311	B8743	2506	B9268	362B	B9425	9156
B1042A	4842	B1118A	4630	B8025	1010	B8456	1210	B8744	2509	B9269	362	B9427	9158
B1043A	4844	B1119A	4730	B8102	6570	B8457	1212	B8745	2515	B9272	8540	B9429	9160
B1044A	4846	B1120A	4600	B8103	6571	B8458	1215	B8746	2527	B9273	323	B9430	1207
B1045A	4848	B1121A	4700	B8104	6572	B8459	1225	B8747	2606	B9275	359D	B9431	1220
B1046A	4850	B1156A	8048	B8105	6573	B8461	1400	B8748	2609	B9291	359C	B9432	1230
B1047A	4855	B1186A	359F	B8106	6574	B8465	1405	B8749	2615	B9302	6302	B9433	1240
B1048A	4802	B1189A	306Q	B8107	6575	B8466	1412	B8750	2627	B9305	6304	B9434	1250
B1049A	4804	B1215A	8045	B8108	6576	B8467	1407	B8751	6351	B9306	6306	B9439	1307
B1050A	4808	B1227A	33250	B8110	6577	B8468	1415	B8752	6338	B9309	6309	B9444	1304
B1051A	4812	B1228A	33251	B8112	6578	B8469	1409	B8753	2511	B9312	3352	B9445	1305
B1052A	4814	B1229A	33252	B8115	6579	B8471	1502	B8754	2513	B9314	3342	B9455	1309
B1053A	4818	B1232A1*	33255	B8118	6580	B8472	9104	B8755	2519	B9315	6315	B9457	1312
B1054A	4820	B1455A	34400	B8125	6581	B8473	1602	B8756	2523	B9316	3332	B9458	1315
B1055A	4832	B1456A	34410	B8132	6550	B8477	1632	B8757	2504	B9318	3322	B9462	5310
B1056A	4404	B1457A	34401	B8133	6551	B8478	9101	B8759	7822	B9319	6319	B9463	8541
B1057A	4408	B1458A	34411	B8134	6552	B8479	9108	B8760	5120	B9320	3312	B9486	5002
B1058A	4412	B1466A	4434	B8135	6553	B8489	1404	B8761	5100	B9322	3302	B9487	5003
B1059A	4414	B1467A	4438	B8138	6556	B8500	513	B8762	5112	B9327	6327	B9488	5004
B1060A	4418	B1468A	4442	B8142	6558	B8501	511	B8763	5321	B9328	3602	B9489	5005
B1061A	4420	B1471A	4448	B8148	6560	B8502	509	B8764	6509	B9329	3603	B9491	3203
B1062A	4425	B1472A	4450	B8155	6561	B8503	507	B8765	6511	B9330	3604	B9492	3213
B1063A	4602	B1474A	3832	B8205	1302	B8504	505	B8766	6515	B9331	3606	B9493	3223
B1064A	4604	B1475A	3834	B8213	311B	B8509	506	B8767	6503	B9332	3609	B9494	3233
B1065A	4608	B1476A	3838	B8214	308B	B8520	715	B8768	6506	B9333	3611	B9495	3243
B1066A	4612	B1477A	3842	B8216	374	B8521	714	B8769	6619	B9334	3615	B9501	6201
B1067A	4614	B1480A	3848	B8218	389	B8522	713	B8770	5123	B9335	3619	B9502	6202
B1068A	4618	B1481A	3850	B8219	358	B8523	712	B8771	5103	B9336	3627	B9503	6203
B1069A	4632	B1484A	4464	B8221	359A	B8524	711	B8772	5113	B9337	3651	B9504	6204
B1070A	4634	B1485A	4468	B8227	8543	B8525	710	B8773	6627	B9341	5012	B9505	6205
B1071A	4638	B1486A	4472	B8237	308	B8527	716	B8774	6609	B9342	5013	B9506	3206
B1072A	4642	B1489A	4478	B8238	311	B8618	5133	B8775	6611	B9343	5014	B9507	6207
B1073A	4644	B1490A	4480	B8240	358B	B8619	1419	B8776	6615	B9344	5015	B9508	6208
B1074A	4648	B1492A	3862	B8241	359	B8620	1504	B8777	6603	B9363	3303	B9509	6209
B1075A	3802	B1493A	3864	B8259	358A	B8621	1507	B8778	6606	B9364	3313	B9510	6210
B1076A	3804	B1494A	3868	B8261	311A	B8622	1512	B8780	7842	B9365	3323	B9512	3402
B1077A	3808	B1495A	3872	B8262	358C	B8623	1515	B8790	7832	B9366	3333	B9513	3403
B1078A	3812	B1498A	3878	B8263	359B	B8624	1519	B8791	7833	B9367	3343	B9514	3404
B1079A	3814	B1499A	3880	B8267	313	B8627	1604	B8794	22749	B9368	3702	B9515	6215
B1080A	3818	B1526A	4500	B8268	314	B8628	1607	B8916	614	B9369	3703	B9516	3406
B1081A	3820	B1583A	35400	B8403	7703	B8629	1612	B8917	613	B9388	3704	B9519	6219
B1082A	3825	B1585A	35401	B8404	7704	B8654	1055	B8918	612	B9389	3706	B9520	3409
B1083A	3904	B1588A*	35450	B8405	7705	B8690	2903	B8919	611	B9390	3709	B9521	3411
B1084A	3908	B1590A*	35402	B8407	7104	B8691	2906	B8920	610	B9391	3711	B9524	3415
B1085A	3912	B1700A	35460	B8408	7102	B8692	2909	B9154	5320	B9392	3715	B9525	6225
B1086A	3918	B1701A	36000	B8412	7502	B8718	5152	B9156	2902	B9402	5323	B9526	3419
B1087A	4620	B1872A	35470	B8418	7508	B8719	5132	B9157	2904	B9407	3202	B9527	3427
B1088A	4625	B1874A	36050	B8422	7900	B8720	5142	B9158	2505	B9408	3212	B9533	6003
B1089A	4650	B2022	1013	B8423	7503	B8722	5322	B9159	2905	B9409	3222	B9534	6004
B1090A	4655	B3114	9580	B8424	7504	B8723	5313	B9160	2508	B9410	3232	B9535	6005

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B9536	6006	B9608	6450	B9743	2919	B9910	616	B9965	8321	B83009	862	B83351	8144
B9537	6007	B9609	6451	B9744	2602	B9912	615	B9966	8322	B83010	863	B83352	8154
B9538	6008	B9610	6452	B9745	2603	B9913	308D	B9967	8323	B83023	875	B83403	656
B9539	6009	B9611	6453	B9746	2604	B9916	605	B9968	8324	B83025	876	B83404	657
B9540	6010	B9612	6454	B9747	2612	B9918	604	B19105	9083	B83026	877	B83412	650
B9541	6015	B9613	6455	B9748	2619	B9919	603	B19106	9080	B83027	879	B83413	651
B9542	6020	B9614	6456	B9749	2623	B9921	602	B19107	9077	B83028	878	B83414	652
B9543	6025	B9615	6457	B9750	2803	B9923	601	B19108	9074	B83029	880	B83415	653
B9544	6030	B9616	6458	B9751	2806	B9924	609	B19109	9071	B83030	881	B83416	654
B9545	6040	B9617	6460	B9752	2809	B9925	6490	B19129	9102	B83061	9801	B83443	670
B9546	6050	B9620	1505	B9753	6352	B9927	6491	B19130	9105	B83062	9802	B83444	671
B9550	6250	B9621	1509	B9755	2815	B9929	6492	B19201	9021	B83063	9803	B83445	672
B9551	3451	B9622	1525	B9767	6637	B9931	6493	B19202	9018	B83064	9805	B83446	673
B9552	3502	B9623	1605	B9768	6612	B9932	6494	B19203	9015	B83065	9806	B87292	11565
B9553	3503	B9626	1425	B9769	6617	B9933	6495	B19204	9012	B83066	9810	B87740	11440F
B9554	3504	B9680	6590	B9773	6803	B9934	6496	B19205	9025	B83264	279B	B88442	11400F
B9555	8547	B9681	6591	B9774	6806	B9935	6497	B19206	9022	B83265	278B	B88444	11401SF
B9556	3506	B9682	6592	B9775	6809	B9936	6498	B19207	9019	B83266	280B	B88489	11441F
B9559	3509	B9683	6593	B9776	6812	B9937	6499	B19208	9016	B83269	288	B88723	11551
B9563	3511	B9684	6594	B9777	6815	B9939	6470	B19209	9013	B83284	216	B88741	11401F
B9565	3515	B9688	8040	B9794	22750	B9940	6471	B19216	9023	B83304	8111	B88742	11402F
B9571	3110	B9689	8042	B9841	6565	B9941	6472	B19217	9020	B83305	8121	B88757	11403F
B9572	3112	B9696	8549	B9842	6566	B9942	6473	B19227	9050	B83306	8131	B88760	11440SF
B9574	3120	B9728	6404	B9843	6567	B9943	6474	B19228	9053	B83307	8141	B88761	11400SF
B9575	3132	B9729	6402	B9873	6703	B9944	6475	B19229	9051	B83308	8151	B88761	11554
B9576	3006	B9730	6403	B9874	6706	B9945	6476	B19230	9054	B83318	8112	B88777	11552
B9577	3009	B9731	6406	B9875	6709	B9946	6477	B24584	39361	B83319	8122	B88778	11553
B9578	3124	B9732	6409	B9876	6711	B9947	6478	B82241	11530	B83320	8132	B89120	11550
B9579	3134	B9733	6411	B9877	6712	B9948	6480	B82248	11550	B83321	8142	B89248	8013
B9580	3114	B9734	6412	B9879	6715	B9951	8351	B82262	11500	B83333	8113	B89269	11500
B9581	3142	B9735	6415	B9883	6783	B9952	8352	B82907	11567	B83334	8123	B89418	11441SF
B9582	3116	B9736	6417	B9886	6786	B9953	8353	B83003	857	B83335	8133	B89555	11520
B9583	3144	B9737	6419	B9891	8020	B9954	8354	B83004	856	B83336	8143	B89688	8041
B9584	3012	B9738	6427	B9892	8022	B9961	8331	B83005	858	B83337	8153	B89689	8043
B9596	3052	B9740	1402	B9893	8024	B9962	8332	B83006	859	B83348	8114	B89740	11440F
B9597	3054	B9741	2912	B9907	8016	B9963	8333	B83007	861	B83349	8124	B93267	287
B9598	3056	B9742	2915	B9908	617	B9964	8334	B83008	860	B83350	8134		

This cross reference guide should be used in conjunction with the product information in Custom Cable Corp's Catalog. It should be used for suggested alternative items which are functionally equal. Constructional differences are not indicated. Custom Cable Corp. is not responsible for variances due to competitor and industry constructional changes or agency updates.

Custom Cable Corp.

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