

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

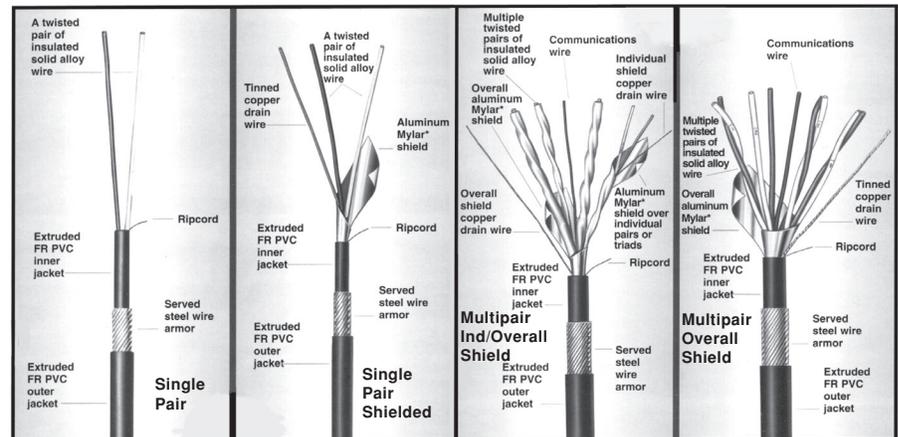
CUSTOM CATALOG NUMBER	SIZE		NUMBER OF PAIRS	Overall Diameter	Minimum Bend Radius	Maximum Pulling Tension	NET WEIGHT
	AWG/MCM			Nominal/Maximum	INCHES	LBS.	LBS./MFT
SHIELDED PAIR / OVERALL SHIELD (SPOS)							
54200(x)	16		1	0.349/0.397	4-3/4	141	108.0
54201(x)	16		1	0.351/0.339	4-3/4	154	111.6
54204(x)	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.



Custom Cable Corp.