

CONTINUOUS CORRUGATED ARMOR 600 VOLT

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

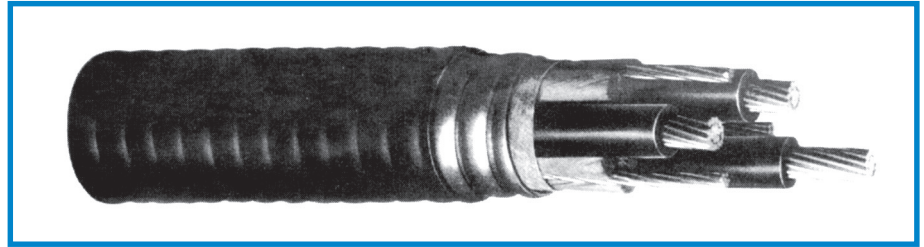
- Fixed position: 7 x cable overall diameter
- During pulling: 12 x cable overall diameter

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	INSUL. THICK.	GROUND WIRE SIZE	NOMINAL DIA. OVER CORE	NOMINAL DIA. OVER SHEATH	JACKET THICK.	NOMINAL DIA. OVER JACKET	APPROX. CABLE WEIGHT	AMPACITY AMPS ⁽¹⁾
	AWG/MCM		AWG						
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 cables having more than 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.

Custom Cable Corp.