CU 600/1000V XLPE Insulation ARMOR-X® PVC Jacket XHHW-2. CT Rated -Sunlight Resistant - For Direct Burial - Silicone Free

Type MC-HL Power Cable 600 or 1000 Volt Four Copper Conductor, Cross Linked Polyethylene (XLPE) Insulation Type XHHW-2, Continuous Corrugated Welded Armor - ARMOR-X®, Polyvinyl Chloride (PVC) Jacket with One Bare Copper Ground

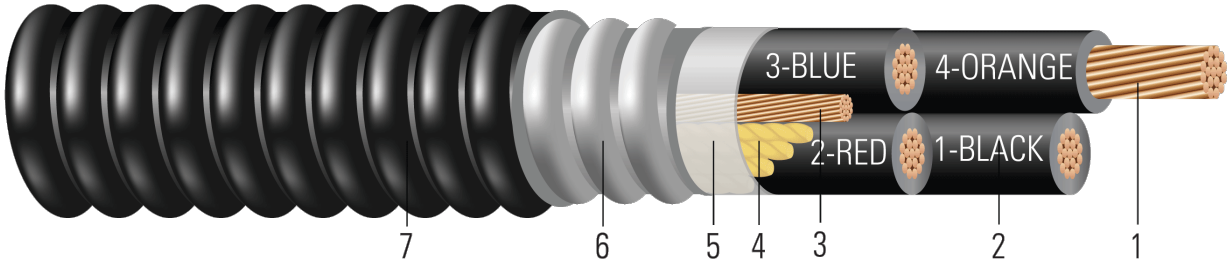

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Grounding Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
4. **Filler:** Polypropylene filler
5. **Binder:** Polypropylene tape
6. **Armor:** ARMOR-X® Continuous Corrugated Welded armor
7. **Overall Jacket:** Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC-HL ARMOR-X® power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- UL 2225 Cables and Cable-Fittings For Use In Hazardous (Classified) Locations
- ICEA S-58-679 Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE ARMOR-X® {UL} TYPE MC-HL 4/C XXX AWG or KCMIL (XX.X{MM2}) CU XHHW-2 GW 1 X XX AWG 90°C JACKET -40°C SUN. RES. DIR. BUR. FOR CT USE 600V/1KV IEEE1202/FT4 -- {CSA} RA90-HL AG14 XLPE -40°C 600V FT4 SR 90°C -- CWCMC -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 -- USA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Ground	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil		No. of Strands	inch	mil	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft	
890527	8	4	7	0.141	45	1 x 10	0.840	50	0.946	238	476	Black
890528	6	4	7	0.177	45	1 x 8	0.920	50	1.026	378	649	Black
890529	4	4	7	0.225	45	1 x 8	1.060	50	1.166	569	918	Black
890530	2	4	7	0.282	45	1 x 6	1.220	60	1.326	909	1295	Black
890531	1/0	4	19	0.361	55	1 x 6	1.470	60	1.576	1399	1948	Black
890532	2/0	4	19	0.405	55	1 x 4	1.540	60	1.666	1790	2437	Black
582265	3/0	4	19	0.456	55	1 x 4	1.760	60	1.886	2223	2954	Black
890533	4/0	4	19	0.512	55	1 x 4	1.845	60	1.971	2769	3536	Black
890534	250	4	37	0.558	65	1 x 4	2.040	60	2.166	3248	4278	Black
890535	350	4	37	0.661	65	1 x 3	2.290	75	2.448	4530	5741	Black
890536	500	4	37	0.789	65	1 x 2	2.670	75	2.828	6443	7980	Black
592727	600	4	61	0.840	80	1 x 2	2.880	75	3.038	7691	9194	Black
890537	750	4	61	0.968	80	1 x 1	3.220	85	3.398	9616	12254	Black

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Capacitive Reactance @ 60Hz	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	MΩ*1000ft	Ω/1000ft	Amp	Amp
890527	8	4	6.6	422	0.653	0.786	0.033	0.052	40	44
890528	6	4	7.2	671	0.411	0.495	0.027	0.051	52	60
890529	4	4	8.2	1068	0.258	0.310	0.022	0.048	68	76
890530	2	4	9.3	1698	0.162	0.195	0.018	0.045	92	104
890531	1/0	4	11.0	2703	0.102	0.122	0.017	0.044	120	136
890532	2/0	4	11.7	3407	0.081	0.097	0.016	0.043	140	156
582265	3/0	4	13.2	4295	0.064	0.078	0.014	0.042	160	180
890533	4/0	4	13.8	5416	0.051	0.062	0.013	0.041	184	208
890534	250	4	15.2	6400	0.043	0.053	0.014	0.041	204	232
890535	350	4	17.1	8960	0.031	0.039	0.012	0.040	248	280
890536	500	4	19.8	12800	0.022	0.029	0.010	0.039	304	344
592727	600	4	21.3	15360	0.018	0.026	0.010	0.034	336	380
890537	750	4	23.8	19200	0.014	0.022	0.010	0.038	380	428

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.