

CU 600/1000V XLPE Insulation Armor-x PVC Jacket. XHHW-2

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

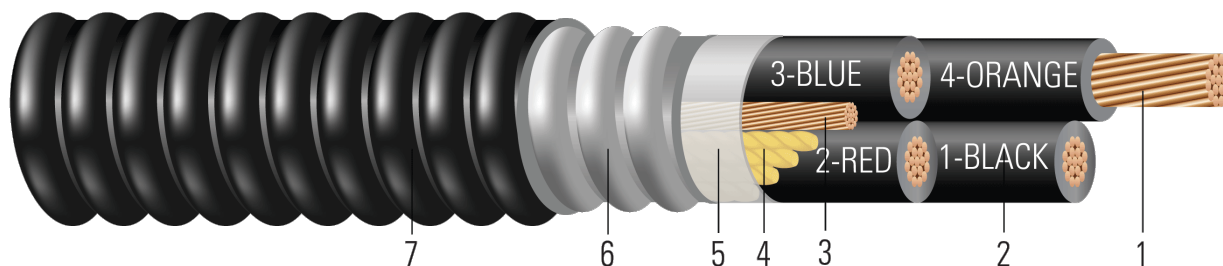


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
- Grounding Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Filler:** Paper filler (cable size 8 & 6 uses Polypropylene filler)
- Binder:** Polypropylene tape
- Armor:** Continuous Corrugated Welded Armor (Armor-X)
- Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

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 Standard Specification for 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
- ICEA S-58-679 Control 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 MASTER-DESIGN ARMOR-X {UL} TYPE MC-HL 4/C XXX KCMIL (XXX{mm²}) CU XHHW-2 GW 1 X X AWG 90{D}C JACKET -40{D}C SUN. RES. DIR. BUR. FOR CT USE 600V IEEE1202/FT4 -- {CSA} RA90-HL AG14 XLPE -40 {D}C 600V FT4 SR 90{D}C -- CWC MC -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4



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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Diameter Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil	inch	mil	inch	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
890527	8	0.141	45	0.233	1 x 10	0.84	60	0.960	238	493
890528	6	0.177	45	0.268	1 x 8	0.92	60	1.040	378	668
890529	4	0.225	45	0.315	1 x 8	1.06	60	1.180	569	940
890530	2	0.282	45	0.371	1 x 6	1.22	60	1.340	909	1319
890531	1/0	0.361	55	0.476	1 x 6	1.47	60	1.590	1399	1977
890532	2/0	0.405	55	0.522	1 x 6	1.54	60	1.660	1790	2432
582265	3/0	0.456	55	0.570	1 x 4	1.76	60	1.880	2223	2949
890533	4/0	0.512	55	0.608	1 x 4	1.845	60	1.965	2769	3531
890534	250	0.558	65	0.672	1 x 4	2.04	60	2.160	3248	4272
890535	350	0.661	65	0.771	1 x 3	2.29	75	2.440	4530	5732
890536	500	0.789	65	0.896	1 x 2	2.67	75	2.820	6443	7969
890537	750	0.968	80	1.128	1 x 1	3.22	85	3.390	9616	12242

All dimensions are nominal and subject to normal manufacturing tolerances

∅ Cable marked with this symbol is a standard stock item

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition - Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F) and adjusted to 80% per Table 310.15(B)(3)(a) for More Than Three Current-Carrying Conductors.

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60° C†	Allowable Ampacity At 75° C†	Allowable Ampacity At 90° C†
	AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
890527	8	6.7	528	0.653	0.786	0.052	32	40	44
890528	6	7.2	839	0.411	0.495	0.051	44	52	60
890529	4	8.2	1335	0.258	0.310	0.048	56	68	76
890530	2	9.3	2123	0.162	0.195	0.045	76	92	104
890531	1/0	11.1	3379	0.102	0.122	0.044	100	120	136
890532	2/0	11.6	4259	0.081	0.097	0.043	116	140	156
582265	3/0	13.1	5369	0.064	0.078	0.042	132	160	180
890533	4/0	13.7	6771	0.051	0.062	0.041	156	184	208
890534	250	15.1	8000	0.043	0.053	0.041	172	204	232
890535	350	17.0	11200	0.031	0.039	0.040	208	248	280
890536	500	19.7	16000	0.022	0.029	0.039	256	304	344
890537	750	23.7	24000	0.014	0.022	0.038	320	380	428

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition - Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F) and adjusted to 80% per Table 310.15(B)(3)(a) for More Than Three Current-Carrying Conductors.

