4/C CU 600V XLPE XHHW-2 ARMOR-X PVC Power Cable With Ground

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 3 Bare CU Ground

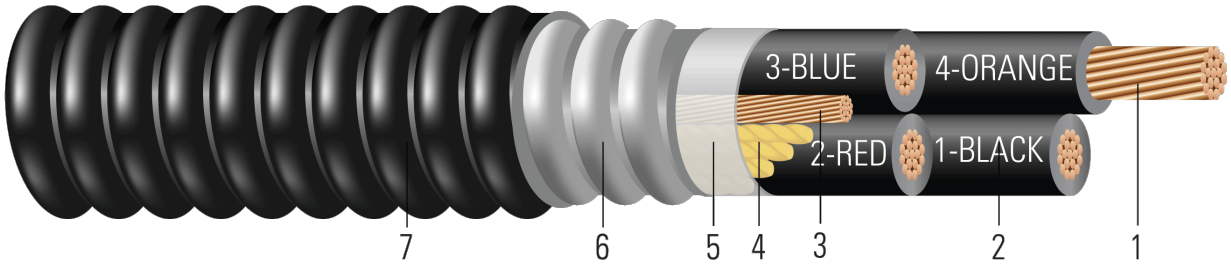

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Grounding Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
4. **Filler:** Paper filler (cable size 8 & 6 uses Polypropylene filler)
5. **Binder:** Polypropylene tape
6. **Armor:** Continuous Corrugated Welded Armor (Armor-X)
7. **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. Suitable for VFD application.

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 1309 Marine Shipboard Cable
- 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)
- ABS Listed as CWCMC

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 3 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 -- ABS CWCMC -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 -- VFD USA

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	0.139	45	0.229	1 x 10	0.790	50	0.890	244	486
890528	6	0.174	45	0.264	1 x 8	0.880	50	0.980	389	668
890529	4	0.221	45	0.311	1 x 8	1.020	50	1.120	582	923
890530	2	0.277	45	0.367	1 x 6	1.220	50	1.320	925	1366
890531	1/0	0.360	55	0.470	1 x 6	1.470	50	1.570	1413	2049
890532	2/0	0.404	55	0.514	1 x 6	1.540	60	1.660	1757	2479
582265	3/0	0.454	55	0.564	1 x 4	1.67	60	1.79	2223	3024
890533	4/0	0.510	55	0.620	1 x 4	1.845	60	1.965	2794	3697
890534	250	0.558	65	0.688	1 x 4	2.040	60	2.160	3273	4310
890535	350	0.661	65	0.791	1 x 3	2.290	75	2.440	4613	5899
890536	500	0.789	65	0.919	1 x 2	2.670	75	2.820	6483	8024
890537	750	0.968	80	1.128	1 x 1	3.220	85	3.390	9747	11847

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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	Shield Short Circuit Current 6 Cycles	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	Amp
890527	8	6.2	528	0.652	0.815	0.036	3754	32	40	44
890528	6	6.9	840	0.411	0.514	0.034	5966	44	52	60
890529	4	7.8	1336	0.258	0.323	0.033	9491	56	68	76
890530	2	9.2	2124	0.162	0.203	0.031	15089	76	92	104
890531	1/0	11.0	3379	0.102	0.128	0.031	24011	100	120	136
890532	2/0	11.6	4259	0.081	0.101	0.030	30264	116	140	156
582265	3/0	12.5	5370	0.064	0.080	0.030	38154	132	160	180
890533	4/0	13.8	6771	0.051	0.064	0.029	48114	156	184	208
890534	250	15.1	8000	0.043	0.054	0.030	56845	172	204	232
890535	350	17.1	11200	0.031	0.039	0.029	79583	208	248	280
890536	500	19.7	16000	0.022	0.027	0.028	113690	256	304	344
890537	750	23.7	24000	0.014	0.019	0.028	170535	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.