

4/C CU 600V XLPE XHHW-2 ARMOR-X LSZH 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), SOLONON® Low Smoke Zero Halogen (LSZH) Jacket with 1 Bare CU Ground

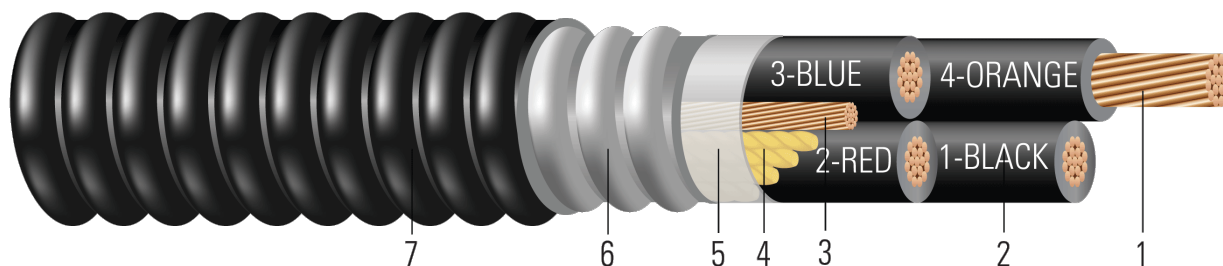


Image not to scale. See Table 1 for dimensions.

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:** SOLONON® Low Smoke Zero Halogen (LSZH) 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 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 Flame Test (70,000) BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems
- ABS Listed as CWCMC

SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# ARMOR-X (UL) [#AWG Or #kcmil] CU XHHW-2 XLPE/LSZH 600V Type MC-HL For CT USE SUN. RES. For DIRECT BURIAL FT4 [-25°C] YEAR (NESC) [SEQUENTIAL FEET MARKS]



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
TBA	8	0.139	45	0.229	1 x 10	0.790	50	0.890	238	473
TBA	6	0.174	45	0.264	1 x 8	0.880	50	0.980	379	649
641520	4	0.221	45	0.311	1 x 8	1.020	50	1.120	572	901
TBA	2	0.277	45	0.367	1 x 6	1.220	50	1.320	910	1335
TBA	1/0	0.360	55	0.470	1 x 6	1.470	50	1.570	1398	2008
572421	2/0	0.404	55	0.514	1 x 6	1.540	60	1.660	1742	2437
550856	4/0	0.510	55	0.620	1 x 4	1.845	60	1.965	2770	3638
TBA	250	0.558	65	0.688	1 x 4	2.040	60	2.160	3249	4241
TBA	350	0.661	65	0.791	1 x 3	2.290	75	2.440	4531	5769
563069	500	0.789	65	0.919	1 x 2	2.670	75	2.820	6445	7928
TBA	750	0.968	80	1.128	1 x 1	3.220	85	3.390	9618	11634

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
TBA	8	6.2	528	0.652	0.815	0.036	3754	32	40	44
TBA	6	6.9	840	0.411	0.514	0.034	5966	44	52	60
641520	4	7.8	1336	0.258	0.323	0.033	9491	56	68	76
TBA	2	9.2	2124	0.162	0.203	0.031	15089	76	92	104
TBA	1/0	11.0	3379	0.102	0.128	0.031	24011	100	120	136
572421	2/0	11.6	4259	0.081	0.101	0.030	30264	116	140	156
550856	4/0	13.8	6771	0.051	0.064	0.029	48114	156	184	208
TBA	250	15.1	8000	0.043	0.054	0.030	56845	172	204	232
TBA	350	17.1	11200	0.031	0.039	0.029	79583	208	248	280
563069	500	19.7	16000	0.022	0.027	0.028	113690	256	304	344
TBA	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.

