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

Type MC-HL Power Cable 600 or 1000 Volt Four Copper Conductors, Cross Linked Polyethylene (XLPE) Insulation Type XHHW-2, Continuous Corrugated Welded Armor - ARMOR-X®, Thermoplastic SOLONON® Low Smoke Zero Halogen (LSZH-TP) Jacket with 1 Bare Copper Ground

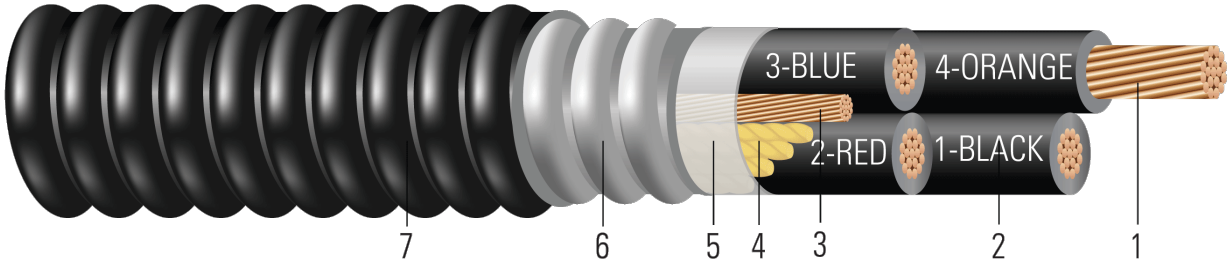


Image not to scale. See Table 1 for dimensions.

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:** Paper filler (cable size 8 & 6 uses polypropylene filler)
5. **Binder:** Polypropylene tape
6. **Armor:** ARMOR-X® Continuous Corrugated Welded armor
7. **Overall Jacket:** Thermoplastic SOLONON® Low Smoke Zero Halogen (LSZH-TP)

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 -40°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:

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- 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 Flame Test (70,000) BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil & Larger)

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE® {UL} ARMOR-X TYPE MC-HL 4/C XX AWG or KCMIL (XX.X{MM2}) CU XHHW-2 GW 1 X XX AWG 90°C SOLONON® JACKET -40°C ST1 SUN.RES. DIR. BUR. FOR CT USE 600V/1kV IEEE1202/FT4 -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4

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	
TBA	8	4	7	0.142	45	1 x 10	0.79	50	0.89	206	454	BK
TBA	6	4	7	0.178	45	1 x 8	0.92	50	1.02	327	643	BK
641520	4	4	7	0.225	45	1 x 8	1.02	50	1.126	569	924	BK
TBA	2	4	7	0.283	45	1 x 6	1.22	50	1.32	828	1301	BK
TBA	1/0	4	19	0.362	55	1 x 6	1.48	50	1.58	1317	1952	BK
572421	2/0	4	19	0.405	55	1 x 4	1.54	60	1.666	1790	2450	BK
673147	3/0	4	19	0.456	55	1 x 4	1.67	60	1.796	2223	2961	BK
550856	4/0	4	19	0.512	55	1 x 4	1.845	60	1.971	2770	3561	BK
TBA	250	4	37	0.558	65	1 x 4	2.04	60	2.16	3118	4157	BK
TBA	350	4	37	0.661	65	1 x 3	2.29	60	2.41	4367	5554	BK
563069	500	4	37	0.789	65	1 x 2	2.67	75	2.828	6444	7779	BK
TBA	750	4	61	0.968	80	1 x 1	3.22	75	3.37	9356	11504	BK

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.

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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	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
TBA	8	4	6.2	528	0.653	0.81	0.052	40	44
TBA	6	4	7.1	839	0.411	0.51	0.051	52	60
641520	4	4	7.9	1335	0.258	0.32	0.048	68	76
TBA	2	4	9.2	2123	0.162	0.201	0.045	92	104
TBA	1/0	4	11.1	3379	0.102	0.127	0.044	120	136
572421	2/0	4	11.7	4259	0.082	0.102	0.043	140	156
673147	3/0	4	12.6	5369	0.064	0.079	0.042	160	180
550856	4/0	4	13.8	6771	0.051	0.063	0.041	184	208
TBA	250	4	15.1	8000	0.043	0.053	0.041	204	232
TBA	350	4	16.9	11200	0.031	0.039	0.04	248	280
563069	500	4	19.8	16000	0.021	0.027	0.039	304	344
TBA	750	4	23.6	24000	0.014	0.019	0.038	380	428

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.
* Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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