CU 600/1000V XLPE Insulation 50% Ground AIA PVC Jacket XHHW-2. CT Rated -Sunlight Resistant - For Direct Burial - Silicone Free

Type MC Power Cable 600Volt Four Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Three Bare CU 50% Ground Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket. Silicone Free.

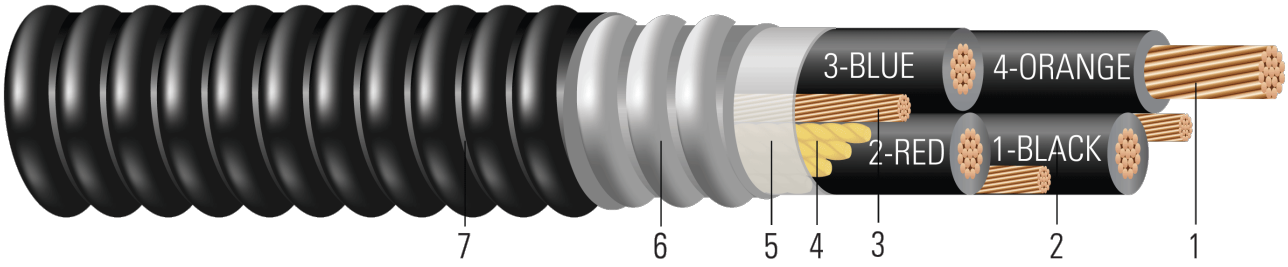


Image not to scale. See Table 1 for dimensions.

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
5. **Binder:** Polypropylene tape
6. **Armor:** Aluminum Interlocked Armor (AIA)
7. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC 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, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. The ground is sized to 50% of the phase conductor with three separate bare grounds one in each interstecie between condutors. Silicone Free.

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 Vertical-Tray Fire Propagation and Smoke Release Test
- 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

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE {UL} 4/C (XXX KCMIL) XXXmm2 CU 65 MILS XLP 600 VOLTS GW 3 X 1 AWG CU TYPE MC FOR CT USE SUN. RES. DIRECT BURIAL 90°C USA -- {NOM}-ANCE Tipo MC XHHW-2 CT

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Dia. Over Insulation	Ground	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil		No. of Strands	inch	mil	inch	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft	
665399	1/0	4	19	0.362	55	0.472	3 x 6	1.382	50	1.487	1563	2046	BK
TBA	2/0	4	19	0.405	55	0.515	3 x 6	1.459	50	1.559			BK
TBA	3/0	4	19	0.456	55	0.566	3 x 5	1.683	50	1.783			BK
665402	4/0	4	19	0.512	55	0.622	3 x 4	1.815	60	1.941	3030	3755	BK
665410	250	4	37	0.558	65	0.688	3 x 4	1.964	60	2.09	3509	4325	BK
TBA	350	4	37	0.661	65	0.791	3 x 2	2.227	60	2.347			BK
952374	500	4	37	0.789	65	0.919	3 x 1	2.505	75	2.663	7020	8244	BK
TBA	600	4	61	0.866	80	1.026	3 x 1/0	2.796	75	2.946			BK
TBA	750	4	61	0.968	80	1.128	3 x 2/0	3.043	75	3.193			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.

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
665399	1/0	4	10.4	3379	0.102	0.127	0.044	120	136
TBA	2/0	4	10.9	4259	0.082	0.102	0.043	140	156
TBA	3/0	4	12.5	5369	0.064	0.079	0.042	160	180
665402	4/0	4	13.6	6771	0.051	0.063	0.041	184	208
665410	250	4	14.6	8000	0.043	0.053	0.041	204	232
TBA	350	4	16.4	11200	0.031	0.039	0.04	248	280
952374	500	4	18.6	16000	0.021	0.027	0.039	304	344
TBA	600	4	20.6	19200	0.018	0.024	0.039	336	380
TBA	750	4	22.4	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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