

CU 600/1000V XLPE Insulation 50% Ground AIA PVC Jacket. XHHW-2

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.

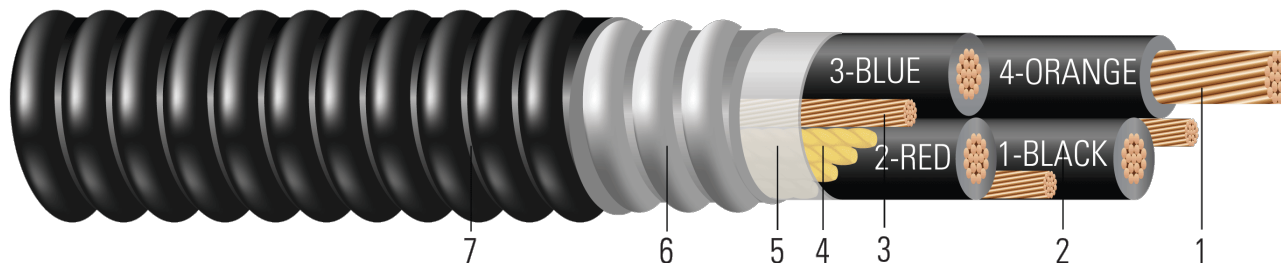


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 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
- Binder:** Polypropylene tape
- Armor:** Aluminum Interlocked Armor (AIA)
- 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 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

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{D}C USA -- {NOM}-ANCE Tipo MC XHHW-2 CT



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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Dia. Over Insulation	Ground	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil	inch	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
665399	1/0	19	0.360	55	0.482	3 x 6	1.382	50	1.488	1563	2053
TBA	2/0	19	0.405	55	0.515	3 x 6	1.568	60	1.688	1755	2310
TBA	3/0	19	0.456	55	0.566	3 x 4	1.691	60	1.811	2245	2884
665402	4/0	19	0.498	55	0.620	3 x 4	1.815	60	1.941	3030	3764
665410	250	37	0.542	65	0.682	3 x 4	1.964	60	2.090	3509	4333
TBA	350	37	0.661	65	0.791	3 x 2	2.236	60	2.356	4556	5482
952374	500	37	0.789	65	0.919	3 x 1	2.504	75	2.654	7020	8269
TBA	600	61	0.865	80	1.025	3 x 1/0	2.802	75	2.952	7723	9091
TBA	750	61	0.968	80	1.128	3 x 2/0	3.051	85	3.221	9656	11224

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 @ 75°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
665399	1/0	10.4	2703	0.102	0.133	0.044	100	120	136
TBA	2/0	11.8	3407	0.081	0.097	0.043	116	140	156
TBA	3/0	12.6	4296	0.064	0.078	0.042	132	160	180
665402	4/0	13.6	5417	0.051	0.066	0.041	156	184	208
665410	250	14.6	6400	0.043	0.056	0.041	172	204	232
TBA	350	16.4	8960	0.031	0.039	0.040	208	248	280
952374	500	18.5	10000	0.022	0.029	0.039	256	304	344
TBA	600	20.6	10000	0.018	0.025	0.039	280	336	380
TBA	750	22.5	10000	0.014	0.022	0.038	320	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.

