



CU 600/1000V XLPE Insulation 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 Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket with 1 Bare CU Ground. 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 (cable size 8 & 6 uses Polypropylene 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. 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, 4-ORANGE)
- 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 (XX AWG) XX.Xmm2 CU XX MILS XLP 600 VOLTS GW 1 X X AWG CU TYPE MC FOR CT USE SUN. RES. DIRECT BURIAL 90°C USA -- {NOM}-ANCE Tipo MC XHHW-2 CT





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
	AWG/ Kcmil		No. of Strands	inch	mil	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	8	4	7	0.141	45	1 x 10	0.771	50	0.871	237	461
574460	6	4	7	0.177	45	1 x 8	0.865	50	0.965	378	650
TBA	4	4	7	0.225	45	1 x 8	0.974	50	1.074	571	872
580730	2	4	7	0.282	45	1 x 6	1.113	50	1.213	909	1279
TBA	1	4	19	0.322	55	1 x 6	1.257	50	1.357	1123	1552
890229	1/0	4	19	0.361	55	1 x 6	1.352	50	1.452	1399	1907
TBA	2/0	4	19	0.405	55	1 x 6	1.458	50	1.558	1739	2250
TBA	3/0	4	19	0.456	55	1 x 4	1.682	60	1.802	2220	2858
562605	4/0	4	19	0.512	55	1 x 4	1.785	60	1.905	2769	3534
557959	250	4	37	0.558	65	1 x 4	1.940	60	2.060	3248	4153
551452	350	4	37	0.661	65	1 x 3	2.179	60	2.299	4530	5709
TBA	350	4	37	0.661	65	1 x 2/0	2.226	60	2.346	4525	5565
605410	500	4	37	0.789	65	1 x 2	2.484	75	2.634	6443	7854
563407	600	4	61	0.865	80	1 x 2	2.765	75	2.915	7691	9303
672989	600	4	61	0.865	80	1 x 4/0	2.798	80	2.964	8145	9698
TBA	750	4	61	0.968	80	1 x 1	3.042	85	3.212	9605	11336

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	Capacitive Reactance @ 60Hz	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	MΩ*1000ft	Ω/1000ft	Amp	Amp
TBA	8	4	6.1	422	0.653	0.786	0.033	0.052	40	44
574460	6	4	6.8	671	0.411	0.495	0.027	0.051	52	60
TBA	4	4	7.5	1068	0.258	0.310	0.022	0.048	68	76
580730	2	4	8.5	1698	0.162	0.195	0.018	0.045	92	104
TBA	1	4	9.5	2142	0.128	0.154	0.019	0.046	104	116
890229	1/0	4	10.2	2703	0.102	0.122	0.017	0.044	120	136
TBA	2/0	4	10.9	3407	0.081	0.097	0.016	0.043	140	156
TBA	3/0	4	12.6	4295	0.064	0.078	0.014	0.042	160	180
562605	4/0	4	13.3	5416	0.051	0.062	0.013	0.041	184	208
557959	250	4	14.4	6400	0.043	0.053	0.014	0.041	204	232
551452	350	4	16.1	8960	0.031	0.039	0.012	0.040	248	280
TBA	350	4	16.4	8960	0.031	0.039	0.012	0.040	248	280
605410	500	4	18.4	12800	0.022	0.029	0.010	0.039	304	344
563407	600	4	20.4	15360	0.018	0.025	0.011	0.039	336	380
672989	600	4	20.7	15360	0.018	0.025	0.011	0.039	336	380
TBA	750	4	22.5	19200	0.014	0.022	0.010	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.

