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.

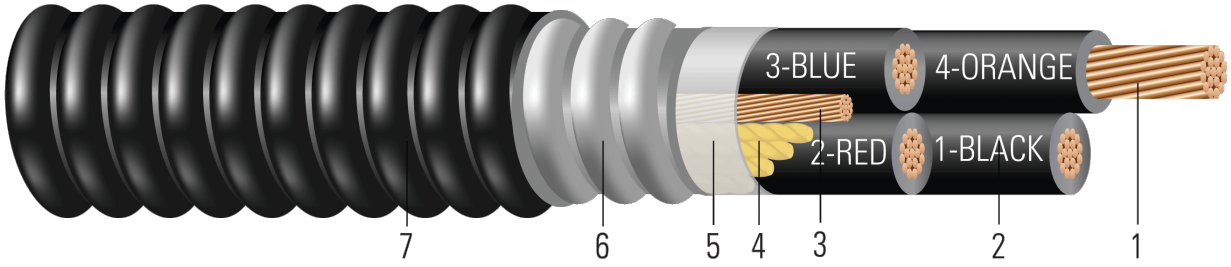

Image not to scale. See Table 1 for dimensions.

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	Jacket Color
	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	Black
574460	6	4	7	0.177	45	1 x 8	0.865	50	0.965	378	650	Black
TBA	4	4	7	0.225	45	1 x 8	0.974	50	1.074	571	872	Black
580730	2	4	7	0.282	45	1 x 6	1.113	50	1.213	909	1279	Black
TBA	1	4	19	0.322	55	1 x 6	1.257	50	1.357	1123	1552	Black
890229	1/0	4	19	0.361	55	1 x 6	1.352	50	1.452	1399	1907	Black
TBA	2/0	4	19	0.405	55	1 x 6	1.458	50	1.558	1739	2250	Black
TBA	3/0	4	19	0.456	55	1 x 4	1.682	60	1.802	2220	2858	Black
562605	4/0	4	19	0.512	55	1 x 4	1.785	60	1.905	2769	3534	Black
557959	250	4	37	0.558	65	1 x 4	1.940	60	2.060	3248	4153	Black
551452	350	4	37	0.661	65	1 x 3	2.179	60	2.299	4530	5709	Black
668519	350	4	37	0.661	65	1 x 2/0	2.253	60	2.403	4781	5919	Black
605410	500	4	37	0.789	65	1 x 2	2.484	75	2.634	6443	7854	Black
563407	600	4	61	0.865	80	1 x 2	2.765	75	2.915	7691	9303	Black
672989	600	4	61	0.865	80	1 x 4/0	2.798	80	2.964	8145	9698	Black
TBA	750	4	61	0.968	80	1 x 1	3.042	85	3.212	9605	11336	Black

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
668519	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.