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.

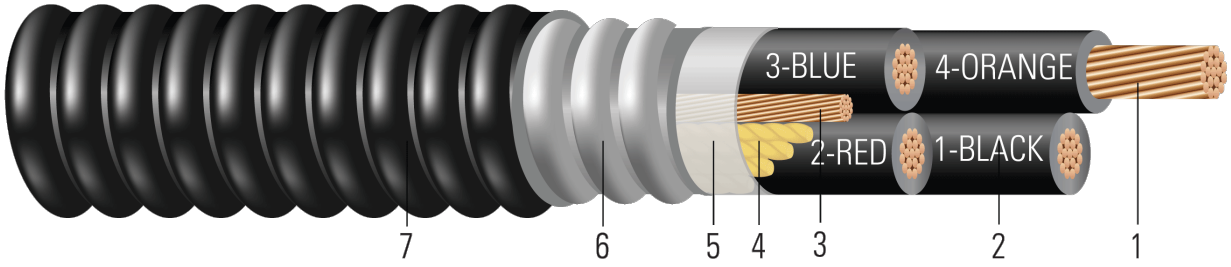


Image not to scale. See Table 1 for dimensions.

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

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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	
TBA	8	4	7	0.142	45	0.232	1 x 10	0.774	50	0.874	206	485	BK
574460	6	4	7	0.178	45	0.268	1 x 8	0.875	50	0.98	379	659	BK
TBA	4	4	7	0.225	45	0.315	1 x 8	0.975	50	1.075	521	888	BK
580730	2	4	7	0.283	45	0.373	1 x 6	1.128	50	1.233	910	1280	BK
TBA	1	4	19	0.322	55	0.432	1 x 6	1.258	50	1.358	1042	1558	BK
890229	1/0	4	19	0.362	55	0.472	1 x 6	1.382	50	1.487	1399	1909	BK
TBA	2/0	4	19	0.405	55	0.515	1 x 6	1.459	50	1.559	1660	2271	BK
TBA	3/0	4	19	0.456	55	0.566	1 x 4	1.683	50	1.783	2092	2941	BK
562605	4/0	4	19	0.512	55	0.622	1 x 4	1.815	60	1.941	2770	3535	BK
557959	250	4	37	0.558	65	0.688	1 x 4	1.964	60	2.09	3249	4159	BK
551452	350	4	37	0.661	65	0.791	1 x 3	2.203	60	2.329	4530	5626	BK
668519	350	4	37	0.661	65	0.791	1 x 2/0	2.253	75	2.41	4781	5937	BK
605410	500	4	37	0.789	65	0.919	1 x 2	2.509	75	2.667	6444	7773	BK
563407	600	4	61	0.866	80	1.026	1 x 2	2.765	75	2.922	7691	9152	BK
672989	600	4	61	0.866	80	1.026	1 x 4/0	2.765	75	2.922	8146	9587	BK
TBA	750	4	61	0.968	80	1.128	1 x 1	3.043	75	3.193	9356	11304	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	6.1	528	0.653	0.81	0.052	40	44
574460	6	4	6.9	839	0.411	0.51	0.051	52	60
TBA	4	4	7.5	1335	0.258	0.32	0.048	68	76
580730	2	4	8.6	2123	0.162	0.201	0.045	92	104
TBA	1	4	9.5	2678	0.128	0.159	0.046	104	116
890229	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
562605	4/0	4	13.6	6771	0.051	0.063	0.041	184	208
557959	250	4	14.6	8000	0.043	0.053	0.041	204	232
551452	350	4	16.3	11200	0.031	0.039	0.04	248	280
668519	350	4	16.9	11200	0.031	0.039	0.04	248	280
605410	500	4	18.7	16000	0.021	0.027	0.039	304	344
563407	600	4	20.5	19200	0.018	0.024	0.039	336	380
672989	600	4	20.5	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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