

4/C CU 600V XLPE XHHW-2 AIA PVC Power Cable With 50% Ground. 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.

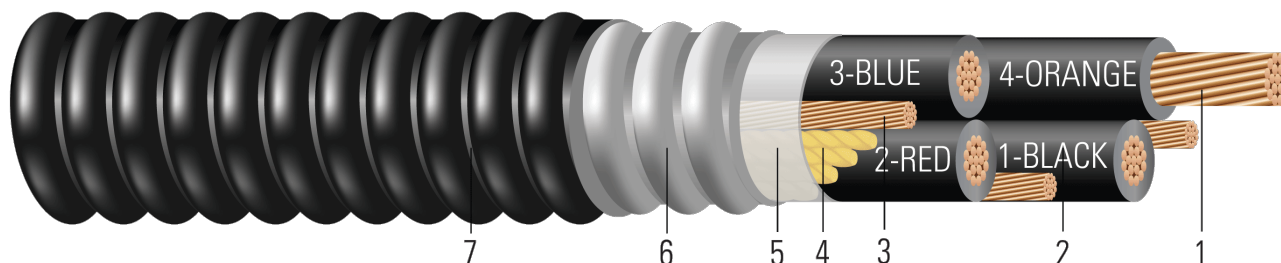


Image not to scale. See Table 1 for dimensions.

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 Standard Specification for 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 MASTER-DESIGN {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



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Diameter Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	inch	mil	inch	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	1/0	0.360	55	0.470	3 x 6	1.345	50	1.445	1562	2190
TBA	2/0	0.404	55	0.514	3 x 6	1.451	50	1.551	1905	2594
TBA	3/0	0.454	55	0.564	3 x 4	1.571	60	1.691	2484	3282
TBA	4/0	0.510	55	0.620	3 x 4	1.707	60	1.827	3028	3915
TBA	250	0.558	65	0.688	1 x 2/0	1.971	60	2.091	3739	4747
TBA	350	0.661	65	0.791	3 x 2	2.219	60	2.339	4988	6170
952374	500	0.789	65	0.919	3 x 1	2.528	75	2.678	7070	8499
TBA	600	0.866	80	1.026	3 x 1/0	2.787	75	2.937	8473	10222
TBA	750	0.968	80	1.128	3 x 2/0	3.033	85	3.203	10601	12615

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 @ 90°C	Inductive Reactance @ 60Hz	Shield Short Circuit Current 6 Cycles	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	Amp
TBA	1/0	10.1	3379	0.102	0.128	0.031	24011	100	120	136
TBA	2/0	10.9	4259	0.081	0.101	0.030	30264	115	138	156
TBA	3/0	11.8	5370	0.064	0.080	0.030	38154	133	159	180
TBA	4/0	12.8	6771	0.051	0.064	0.029	48114	154	184	208
TBA	250	14.6	8000	0.043	0.054	0.030	56845	172	205	232
TBA	350	16.4	11200	0.031	0.039	0.029	79583	207	248	280
952374	500	18.7	16000	0.022	0.027	0.028	113690	255	305	344
TBA	600	20.6	19200	0.018	0.023	0.029	136428	282	336	380
TBA	750	22.4	24000	0.014	0.019	0.028	170535	317	379	428

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

