

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

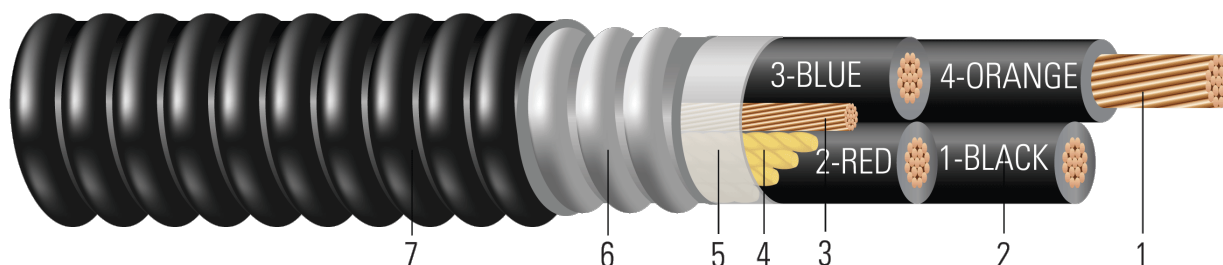


Image not to scale. See Table 1 for dimensions.

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. Constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC 336.10. 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 1309 Marine Shipboard Cable
- UL 1569 Metal-Clad Cables
- UL 1685 FT4 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
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)
- ABS Listed as CWC MC



SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# (UL) [#AWG Or #kcmil] CU XHHW-2 XLPE/PVC AIA 600V Type MC For CT USE SUN. RES. For DIRECT BURIAL FT4 YEAR (NESC) [SEQUENTIAL FEET MARKS]

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	8	0.139	45	0.229	1 x 10	0.763	50	0.863	238	486
574460	6	0.174	45	0.264	1 x 8	0.848	50	0.948	379	665
TBA	4	0.221	45	0.311	1 x 8	0.960	50	1.060	572	911
580730	2	0.277	45	0.367	1 x 6	1.097	50	1.203	910	1276
TBA	1	0.321	55	0.431	1 x 6	1.250	50	1.350	1126	1618
890229	1/0	0.360	55	0.470	1 x 6	1.345	50	1.445	1398	1940
TBA	2/0	0.404	55	0.514	1 x 6	1.451	50	1.551	1742	2341
TBA	3/0	0.454	55	0.564	1 x 4	1.571	60	1.691	2223	2922
TBA	4/0	0.510	55	0.620	1 x 4	1.707	60	1.827	2770	3550
TBA	250	0.558	65	0.688	1 x 4	1.971	60	2.091	3249	4242
551452	350	0.661	65	0.791	1 x 3	2.219	60	2.339	4531	5696
605410	500	0.789	65	0.919	1 x 2	2.528	75	2.678	6445	7903
563407	600	0.866	80	1.026	1 x 2	2.787	75	2.937	7693	9418
TBA	750	0.968	80	1.128	1 x 1	3.033	85	3.203	9618	11605

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	8	6.0	528	0.652	0.815	0.036	3754	32	40	44
574460	6	6.6	840	0.411	0.514	0.034	5966	44	52	60
TBA	4	7.4	1336	0.258	0.323	0.033	9491	56	68	76
580730	2	8.4	2124	0.162	0.203	0.031	15089	76	92	104
TBA	1	9.5	2678	0.129	0.161	0.032	19029	88	104	116
890229	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	116	140	156
TBA	3/0	11.8	5370	0.064	0.080	0.030	38154	132	160	180
TBA	4/0	12.8	6771	0.051	0.064	0.029	48114	156	184	208
TBA	250	14.6	8000	0.043	0.054	0.030	56845	172	204	232
551452	350	16.4	11200	0.031	0.039	0.029	79583	208	248	280
605410	500	18.7	16000	0.022	0.027	0.028	113690	256	304	344
563407	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	320	380	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) and adjusted to 80% per Table 310.15(B)(3)(a) for More Than Three Current-Carrying Conductors.

