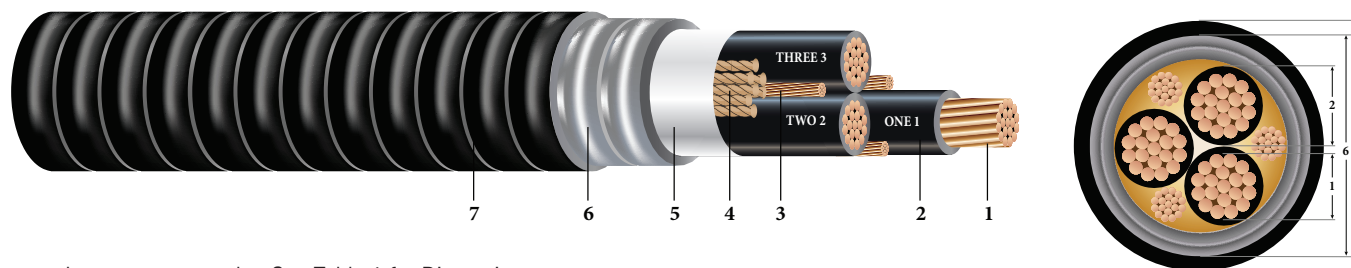


## 3/C CU 600V XLPE 50% Ground AIA PVC Power Cable Type MC

Type MC Power Cable 600Volt Three Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Three Bare CU 50% Ground Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket with. Silicone Free



Images not to scale. See Table 1 for Dimensions

### CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
- Grounding Conductor:** Three separate Ground Wires with a combined circular mil of 50% of the phase conductor. Stranded class B compressed per ASTM B3 and ASTM B8
- Filler:** Paper filler (cable size 8 & 6 uses Polypropylene filler)
- Binder:** Polypropylene tape
- Armor:** Aluminum Interlocked Armor (AIA)
- 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 conductors. The cable is made Silicone Free.

### SPECIFICATIONS:

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-lay-standard copper
- UL 44 Thermoset Insulated wires and cables
- UL 1569 Metal-Clad Cables
- UL 1685 - Flame Test
- IEEE 1202/FT4 - Flame Test (70,000 Btu/hr Vertical Tray Test)
- ICEA S-58-679 - Control Cable Conductor Identification Method 4
- ICEA S-95-658 NEMA WC70 - Power cables rated 2000 volts or less for the distribution of electrical energy

### 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]



**Southwire**<sup>®</sup>

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**Table 1 – Weights & Measurements**

Stock Code	Cond. Size	Dia Over Cond. (1)	Insul. Thickness	Dia Over Insul. (2)	Dia. Over Armor (6)	Ground No. x AWG	Jacket Thickness mils	Approx. OD (7) inches	Copper Weight lbs./MFT	Approx. Weight lbs./MFT
	AWG	inches	inches	inches	inches					
TBA	1/0	0.360	55	0.470	1.225	3 x 6	50	1.325	1233	1698
TBA	2/0	0.404	55	0.514	1.320	3 x 6	50	1.420	1491	2005
TBA	3/0	0.454	55	0.564	1.428	3 x 4	50	1.528	1960	2532
TBA	4/0	0.510	55	0.620	1.549	3 x 4	60	1.669	2370	3040
TBA	250	0.558	65	0.688	1.696	3 x 2	60	1.816	2960	3730
TBA	300	0.611	65	0.741	1.911	3 x 2	60	2.031	3427	4357
576888	350	0.661	65	0.791	2.019	3 x 2	60	2.139	3896	4899
552598	500	0.789	65	0.919	2.295	3 x 1	75	2.445	5461	6720
TBA	600	0.866	80	1.026	2.526	3 x 1/0	75	2.676	6602	8083
TBA	750	0.968	80	1.128	2.746	3 x 2/0	75	2.896	8263	9917

All dimensions are nominal and subject to normal manufacturing tolerances

**Table 2 – Electrical and Engineering Data**

Stock Code	Cond. Size AWG	Min. Bending Radius Inches	Max. Pull Tension lbs.	Resistance		Reactance $X_L$ @ 60Hz Ω/MFT	Ø Short Circuit Current 6 Cycles Amps	Allowable Ampacities †		
				DC @ 25°C Ω/MFT	AC @ 90°C Ω/MFT			60 °C Amps	75 °C Amps	90 °C Amps
TBA	1/0	9.3	2534	0.102	0.128	0.028	24011	126	150	170
TBA	2/0	9.9	3194	0.081	0.102	0.027	30264	144	172	195
TBA	3/0	10.7	4027	0.064	0.081	0.027	38154	167	199	225
TBA	4/0	11.7	5078	0.051	0.064	0.026	48114	192	230	260
TBA	250	12.7	6000	0.043	0.055	0.027	56845	215	257	290
TBA	300	14.2	7200	0.036	0.046	0.026	68214	237	283	320
576888	350	15.0	8400	0.031	0.040	0.026	79583	259	310	350
552598	500	17.1	12000	0.022	0.029	0.025	113690	319	381	430
TBA	600	18.7	14400	0.018	0.024	0.026	136428	352	421	475
TBA	750	20.3	18000	0.014	0.020	0.025	170535	397	474	535

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2014 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

