

## CU 600/1000V XLPE Insulation 50% Ground AIA PVC Jacket. XHHW-2 Silicone Free

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.

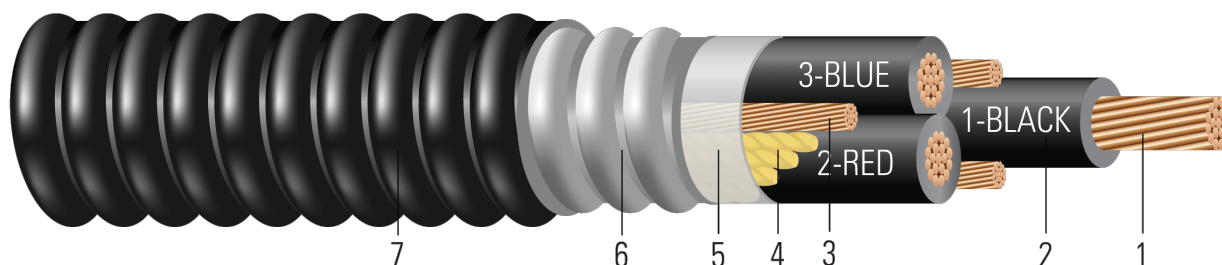


Image not to scale. See Table 1 for dimensions.

### 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. 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 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 Flame Test (70,000) BTU/hr Vertical Tray Test

### SAMPLE PRINT LEGEND:

SQFTG\_DUAL} SOUTHWIRE MASTER-DESIGN {UL} 3/C (XXX KCMIL) XXXmm<sup>2</sup> CU XX 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 FT4



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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
	AWG/ Kcmil		No. of Strands	inch	mil	inch	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
655383	1/0	3	19	0.361	55	0.471	3 x 6	1.246	50	1.352	1233	1672
665396	2/0	3	19	0.405	55	0.526	3 x 6	1.354	50	1.460	1491	1978
655386	3/0	3	19	0.456	55	0.566	3 x 4	1.449	50	1.555	1960	2518
TBA	4/0	3	19	0.512	55	0.622	3 x 4	1.665	60	1.785	2130	2839
671883	250	3	37	0.558	65	0.688	3 x 4	1.669	60	1.889	2729	3589
TBA	250	3	37	0.558	65	0.688	3 x 2	1.808	60	1.928	2490	3308
TBA	300	3	37	0.610	65	0.740	3 x 2	1.920	60	2.040	2997	3886
576888	350	3	37	0.661	65	0.791	3 x 2	1.983	60	2.103	3895	4771
552598	500	3	37	0.789	65	0.919	3 x 1	2.273	75	2.423	5460	6624
TBA	600	3	61	0.865	80	1.025	3 x 1/0	2.536	75	2.686	5854	7291
588666	750	3	61	0.968	80	1.128	3 x 2/0	2.758	75	2.908	8261	9735

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	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	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
655383	1/0	3	9.4	2534	0.102	0.122	0.044	125	150	170
665396	2/0	3	10.2	3194	0.081	0.106	0.043	145	175	195
655386	3/0	3	10.8	4027	0.064	0.078	0.042	165	200	225
TBA	4/0	3	12.4	5078	0.051	0.062	0.041	195	230	260
671883	250	3	13.2	6000	0.043	0.053	0.041	215	255	290
TBA	250	3	13.4	6000	0.043	0.053	0.041	215	255	290
TBA	300	3	14.2	7200	0.036	0.045	0.041	240	285	320
576888	350	3	14.7	8400	0.031	0.039	0.040	260	310	350
552598	500	3	16.9	10000	0.022	0.029	0.039	320	380	430
TBA	600	3	18.8	10000	0.018	0.025	0.039	350	420	475
588666	750	3	20.3	10000	0.014	0.022	0.038	400	475	535

\* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.

