

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.

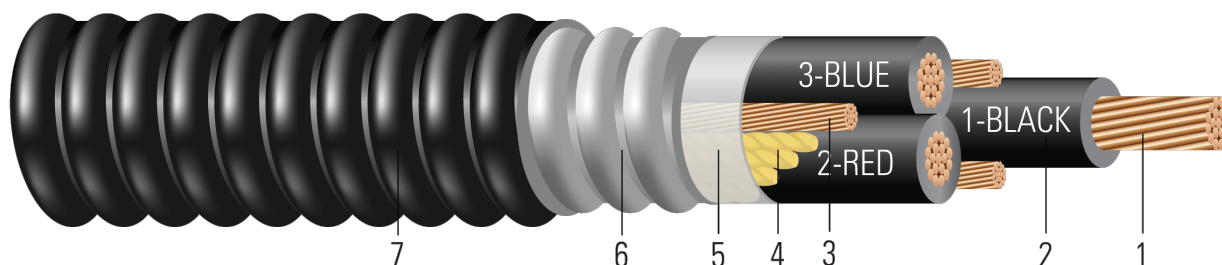


Image not to scale. See Table 1 for dimensions.

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) XXXmm² 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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



Southwire

**CABLETECH
SUPPORT™**

Services

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.

