

## CU 600/1000V XLPE Insulation AIA PVC Jacket. XHHW-2

Type MC Power Cable 600Volt Three Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket with 1 Bare CU Ground. Silicone Free.

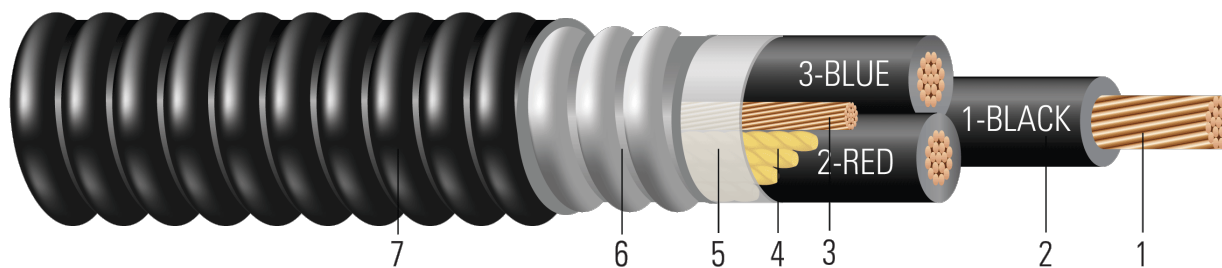


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
- Grounding Conductor:** Class B compressed stranded bare copper 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. 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 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:

{SQFTG\_DUAL} SOUTHWIRE MASTER-DESIGN {UL} 3/C (1 AWG) XX.Xmm<sup>2</sup> CU XX MILS XLP 600 VOLTS GW 1 X X 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	Ground	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil		No. of Strands	inch	mil	No. x AWG	inch	mil	inch	lb/1000ft	lb/1000ft
606939	8	3	7	0.141	45	1 x 10	0.705	50	0.805	187	404
606947	6	3	7	0.177	45	1 x 8	0.781	50	0.881	297	547
606954◇	4	3	7	0.225	45	1 x 8	0.881	50	0.981	442	736
671892	3	3	7	0.252	45	1 x 6	0.946	50	1.046	574	888
560466◇	2	3	7	0.282	45	1 x 6	1.003	50	1.103	703	1054
550801	1	3	19	0.322	55	1 x 6	1.141	50	1.251	865	1260
560474◇	1/0	3	19	0.361	55	1 x 6	1.225	50	1.325	1069	1534
560482◇	2/0	3	19	0.405	55	1 x 6	1.320	50	1.420	1327	1841
890339◇	3/0	3	19	0.456	55	1 x 4	1.428	50	1.528	1700	2272
383679◇	4/0	3	19	0.512	55	1 x 4	1.549	60	1.669	2110	2779
601377	250	3	37	0.558	65	1 x 4	1.696	60	1.816	2469	3240
383646◇	350	3	37	0.661	65	1 x 3	2.019	60	2.139	3440	4442
380618◇	500	3	37	0.789	65	1 x 2	2.295	75	2.445	4885	6144
582274	500	3	37	0.789	65	1 x 4/0	2.295	75	2.527	5338	6634
890391	600	3	61	0.865	80	1 x 4/0	2.526	75	2.676	6222	7573
890405	750	3	61	0.968	80	1 x 1	2.746	75	2.896	7278	8933

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
606939	8	3	5.6	396	0.652	0.815	0.033	40	50	55
606947	6	3	6.2	630	0.411	0.514	0.031	55	65	75
606954◇	4	3	6.9	1002	0.258	0.323	0.030	70	85	95
671892	3	3	8.1	1002	0.205	0.256	0.029	85	100	115
560466◇	2	3	7.7	1593	0.162	0.203	0.028	95	115	130
550801	1	3	8.7	2009	0.129	0.162	0.028	110	130	145
560474◇	1/0	3	9.3	2534	0.102	0.128	0.028	125	150	170
560482◇	2/0	3	9.9	3194	0.081	0.102	0.027	145	175	195
890339◇	3/0	3	10.7	4027	0.064	0.081	0.027	165	200	225
383679◇	4/0	3	11.7	5078	0.051	0.064	0.026	195	230	260
601377	250	3	12.7	6000	0.043	0.055	0.027	215	255	290
383646◇	350	3	15.0	8400	0.031	0.040	0.026	260	310	350
380618◇	500	3	17.1	10000	0.022	0.029	0.025	320	380	430
582274	500	3	17.1	10000	0.022	0.029	0.025	320	380	430
890391	600	3	18.7	10000	0.018	0.024	0.026	350	420	475
890405	750	3	20.3	10000	0.014	0.020	0.025	400	475	535



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

