CU 600V XLPE Insulation AIA PVC Jacket XHHW-2 CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Type MC Control Cable 600Volt Copper Conductors, Cross Linked Polyethylene (XLPE) Insulation XHHW-2 Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket.

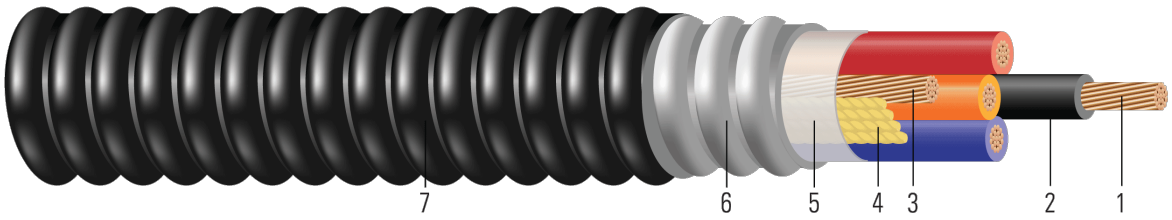

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 7-strand class B compressed bare copper per ASTM B3 and B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Grounding Conductor:** Class B compressed stranded bare copper
4. **Filler:** Polypropylene filler on cables with 5 or less conductors
5. **Binder:** Polyester flat thread binder tape applied for cables with more than 5 conductors
6. **Armor:** Aluminum Interlocked Armor (AIA)
7. **Overall Jacket:** Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC control 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.

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 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 2
- ICEA S-73-532 Control, Thermocouple Extension, and Instrumentation Cables (applicable to sizes 20-9 AWG conductors)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE {UL} X/C (XX AWG) X.XXmm2 CU XX MILS XLP 600 VOLTS GW 1 X XX AWG CU TYPE MC FOR CT USE SUN. RES. DIRECT BURIAL 90C USA -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Ground	Diameter Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Rectance	Min Bending Radius	Allowable Ampacity 75°C
	AWG	No.	strands	inch	mil	No. x AWG	inch	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp
14 AWG																
TBA	14	4	7	0.071	30	1 x 14	0.53	50	0.63	52	217	2.631	3.265	0.058	4.4	16
555413*	14	3	7	0.071	30	1 x 14	0.544	50	0.649	51	204	2.631	3.265	0.058	4.5	20
12 AWG																
578426	12	2	7	0.089	30	1 x 12	0.524	50	0.629	61	198	1.662	2.063	0.054	4.4	25
555149	12	3	7	0.089	30	1 x 12	0.554	50	0.659	81	231	1.662	2.063	0.054	4.6	25
573502	12	4	7	0.089	30	1 x 12	0.587	50	0.692	102	266	1.662	2.063	0.054	4.8	20
10 AWG																
568457	10	2	7	0.113	30	1 x 10	0.572	50	0.677	97	254	1.04	1.291	0.05	4.7	35
568458	10	3	7	0.113	30	1 x 10	0.603	50	0.708	129	300	1.04	1.291	0.05	5	35
573500	10	4	7	0.113	30	1 x 10	0.645	50	0.75	162	345	1.04	1.291	0.05	5.2	28

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

+ Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

+ Ampacities have been adjusted for more than Three Current-Carrying Conductors.

* Green Ground Conductor.

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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