CU 600V XLPE Insulation ARMOR-X® PVC Jacket XHHW-2 Control Cable. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Type MC-HL Control Cable 600Volt Copper Conductors, Cross Linked Polyethylene (XLPE) Insulation XHHW-2 Continuous Corrugated Welded Armor ARMOR-X®, Polyvinyl Chloride (PVC) Jacket with 1 Insulated Green CU Ground

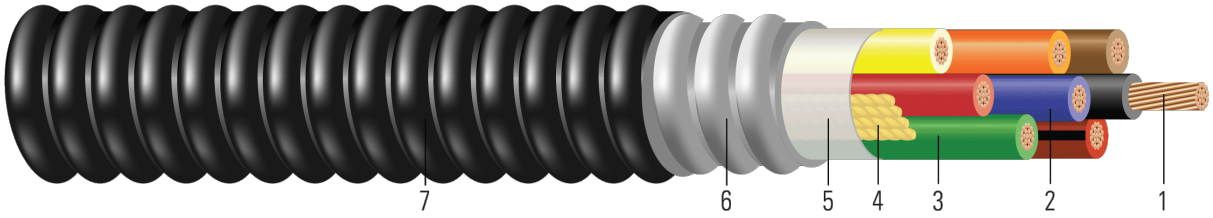

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 7 strands class B compressed copper per ASTM B3 and B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) XHHW-2
3. **Grounding Conductor:** Class B compressed stranded copper with green insulation
4. **Filler:** Polypropylene filler as needed
5. **Binder:** Polyester flat thread binder tape as needed
6. **Armor:** ARMOR-X® Continuous Corrugated Aluminum Welded Armor
7. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC-HL ARMOR-X® 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, 250°C for short circuit conditions, and -40°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503.

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
- UL 2225 Cables and Cable-Fittings For Use In Hazardous (Classified) Locations
- 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
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)

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SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE ARMOR-X {UL} TYPE MC-HL ARMOR-X® X/C XXAWG (X.XXmm2}) CU XHHW-2 GW 1 X X AWG 90°C JACKET -40°C SUN. RES. DIR. BUR. FOR CT USE 600V IEEE1202/FT4 -- {CSA} RA90-HL AGXX XLPE -40°C 600V FT4 SR 90°C -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 -- USA

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Diameter Over Insulation	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
	AWG	No.	strands	inch	mil	inch	No. x AWG	inch	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch
14 AWG																
554894!	14	2	7	0.071	30	0.131	1 x 14	0.48	50	0.586	38	166	2.631	3.265	0.058	4.1
568912^	14	2	7	0.071	30	0.131	1 x 14	0.48	50	0.586	38	160	2.631	3.265	0.058	4.1
589289	14	4	7	0.071	30	0.131	1 x 14	0.57	50	0.676	64	214	2.631	3.265	0.058	4.7
550607	14	6	7	0.071	30	0.131	1 x 14	0.65	50	0.756	89	268	2.631	3.265	0.058	5.3
586450	14	7	7	0.071	30	0.131	1 x 14	0.65	50	0.756	102	284	2.631	3.265	0.058	5.3
550609	14	8	7	0.071	30	0.131	1 x 14	0.7	50	0.806	115	319	2.631	3.265	0.058	5.6
890611!	14	9	7	0.071	30	0.131	1 x 14	0.79	50	0.896	128	353	2.631	3.265	0.058	6.3
550614	14	11	7	0.071	30	0.131	1 x 14	0.79	50	0.896	153	389	2.631	3.265	0.058	6.3
890585!	14	12	7	0.071	30	0.131	1 x 14	0.79	50	0.896	153	389	2.631	3.265	0.058	6.3
550615	14	18	7	0.071	30	0.131	1 x 14	0.92	50	1.026	242	542	2.631	3.265	0.058	7.2
550617	14	36	7	0.071	30	0.131	1 x 14	1.220	50	1.326	50	969	2.631	3.265	0.058	9.3
12 AWG																
890592	12	7	7	0.089	30	0.149	1 x 12	0.7	50	0.806	142	337	1.662	2.063	0.054	5.6
550810!	12	2	7	0.089	30	0.149	1 x 12	0.53	50	0.636	61	194	1.662	2.063	0.054	4.5
568795^	12	3	7	0.089	30	0.149	1 x 12	0.61	50	0.716	81	237	1.662	2.063	0.054	5
568796	12	4	7	0.089	30	0.149	1 x 12	0.65	50	0.756	102	273	1.662	2.063	0.054	5.3
550610	12	5	7	0.089	30	0.149	1 x 12	0.7	50	0.806	122	314	1.662	2.063	0.054	5.6
550611	12	6	7	0.089	30	0.149	1 x 12	0.7	50	0.806	142	337	1.662	2.063	0.054	5.6
550618	12	8	7	0.089	30	0.149	1 x 12	0.79	50	0.896	182	410	1.662	2.063	0.054	6.3
550619	12	11	7	0.089	30	0.149	1 x 12	0.92	50	1.026	243	517	1.662	2.063	0.054	7.2
584189	12	12	7	0.089	30	0.149	1 x 12	0.92	50	1.026	263	545	1.662	2.063	0.054	7.2
550620	12	18	7	0.089	30	0.149	1 x 12	1.02	50	1.126	385	724	1.662	2.063	0.054	7.9
10 AWG																
954321!	10	2	7	0.113	30	0.173	1 x 10	0.65	50	0.756	97	268	1.04	1.291	0.05	5.3
550612	10	5	7	0.113	30	0.173	1 x 10	0.79	50	0.896	193	412	1.04	1.291	0.05	6.3
550613	10	6	7	0.113	30	0.173	1 x 10	0.79	50	0.896	225	451	1.04	1.291	0.05	6.3
550622	10	8	7	0.113	30	0.173	1 x 10	0.92	50	1.026	290	564	1.04	1.291	0.05	7.2
550623!	10	11	7	0.113	30	0.173	1 x 10	1.02	50	1.126	387	700	1.04	1.291	0.05	7.9

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.

! No CSA product Type RA90-HL

^ Tested as per IEC 60332-3-22 & 60092-350

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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