

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

1000V Multi Conductor, Copper, FT4 - Flame Retardancy Rating, XLPE Insulation, Aluminum Interlocked Armour, Sunlight Resistant, Direct Buried, -40°C - 90°C, Rated HL, AG14

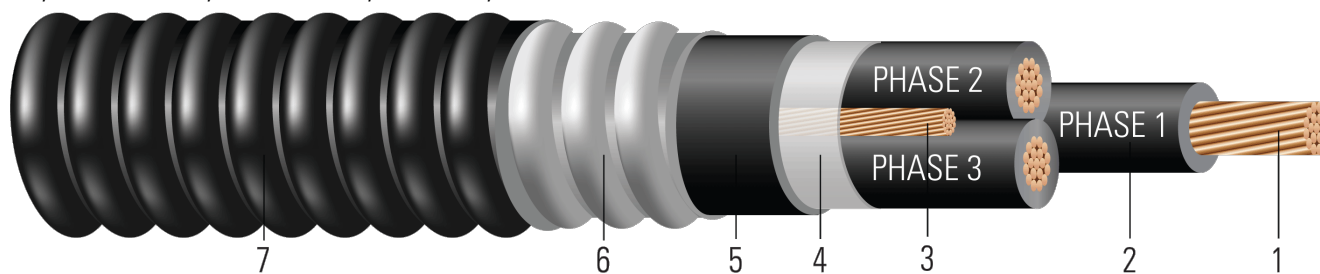


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B stranded copper, compressed, in accordance with ASTM B3 and B8. Sizes #1 to 4/0 are combination unilay-stranded copper conductors in accordance with ASTM B787.
- Insulation:** Cross-Linked Polyethylene (XLPE)
- Grounding Conductors:** Uninsulated Class B stranded grounding conductor
- Binder:** Mylar tape
- Inner Jacket:** Black Polyvinyl Chloride (PVC)
- Armor:** Aluminum Interlocked Armour (AIA)
- Overall Jacket:** Black PVC (optional colours available)

APPLICATIONS AND FEATURES:

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet, dry, hazardous locations or direct buried. Sunlight Resistant. Typical applications are for control, lighting and power circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

- -40°C - CSA Cold Bend and Impact Temperature
- -40°C - Min. Installation Temperature
- 90°C - Max. Continuous Operating Temperature

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 1569 Metal-Clad Cables
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 131 Type TECK 90 Cable
- CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA AG14 - Acid Gas Compliance
- ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test



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



Southwire

**CABLETECH
SUPPORT™**

Services

SAMPLE PRINT LEGEND:

{SQMTR_DUAL} SOUTHWIRE{R} MASTER-DESIGN {CSA} LL90458 3/C XXX AWG (XX{mm2}) CU TECK 90 XLPE -40{D}C FT4 AG14 SUN. RES. 90{D}C 1000V HL --- {UL} E96627 TYPE MC XLPE 600V SUN. RES. DIRECT BURIAL 90{D}C --- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 600V o 1000V 90{D}C USA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Inner Jacket Thickness	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil	mil	inch	mil	inch	lb/1000ft	lb/1000ft
640853	8	7	0.141	45	50	0.846	50	0.956	186	493
640881	1	19	0.322	80	50	1.545	50	1.681	863	1643
640878	1/0	19	0.361	80	50	1.632	50	1.765	1067	1901
640889	3/0	19	0.456	80	50	1.814	60	1.946	1698	2649
640898	4/0	19	0.512	80	50	1.943	60	2.075	2106	3210
640905	350	37	0.661	90	60	2.36	60	2.526	3436	5028
TBA	500	37	0.789	90	110	2.632	60	2.743	4673	6487
641155	1000	61	1.117	90	75	3.541	85	3.619	9607	12232

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	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
640853	8	6.6	396	0.653	0.786	0.052	40	50	55
640881	1	11.7	2008	0.128	0.154	0.046	110	130	145
640878	1/0	12.3	2534	0.102	0.122	0.030	125	150	170
640889	3/0	13.6	4027	0.064	0.078	0.029	165	200	225
640898	4/0	14.5	5078	0.051	0.062	0.028	195	230	260
640905	350	17.6	8400	0.031	0.039	0.027	260	310	350
TBA	500	19.2	12000	0.022	0.029	0.039	320	380	430
641155	1000	25.3	24000	0.011	0.018	0.025	455	545	615

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

