

TECK 90 1000V XLPE with PVC JACKET POWER CABLE

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

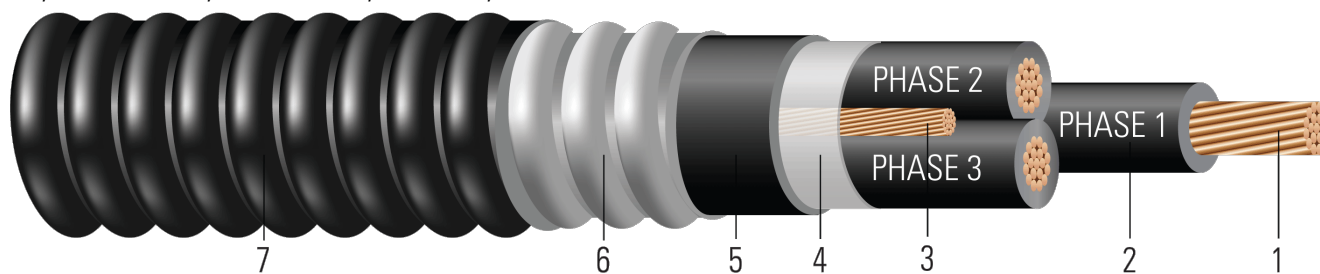


Image not to scale. See Table 1 for dimensions.

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 Standard Specification for 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. 131 Type TECK 90 Cable
- CSA C22.2 No. 174 Cables in Hazardous Locations
- 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



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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	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Diameter Over Armor	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil	inch	mil	inch	No. x AWG	inch	inch	lb/1000ft	lb/1000ft
640853	8	0.139	45	0.229	1 x 10	0.846	0.956	187	493
640881	1	0.321	85	0.489	1 x 6	1.545	1.681	865	1643
640878	1/0	0.360	85	0.528	1 x 6	1.632	1.765	1069	1901
640889	3/0	0.454	85	0.622	1 x 4	1.814	1.946	1700	2649
640898	4/0	0.510	85	0.666	1 x 4	1.943	2.075	2110	3210
640905	350	0.661	95	0.830	1 x 3	2.360	2.526	3440	5028
TBA	500	0.766	65	0.896	3 x 1	2.369	2.519	5455	6562
641155	1000	1.117	95	1.306	1 x 1	3.541	3.619	9616	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 @ 90°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	6.69	396	0.652	0.815	0.033	40	50	55
640881	1	11.77	2009	0.129	0.162	0.028	110	130	145
640878	1/0	12.36	2534	0.102	0.128	0.028	125	150	170
640889	3/0	13.62	4027	0.064	0.081	0.027	165	200	225
640898	4/0	14.53	5078	0.051	0.064	0.026	195	230	260
640905	350	17.7	8400	0.031	0.040	0.026	260	310	350
TBA	500	18	24000	0.0212	0.033	0.0232	320	380	430
641155	1000	25	24000	0.011	0.016	0.025	455	545	545

