

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

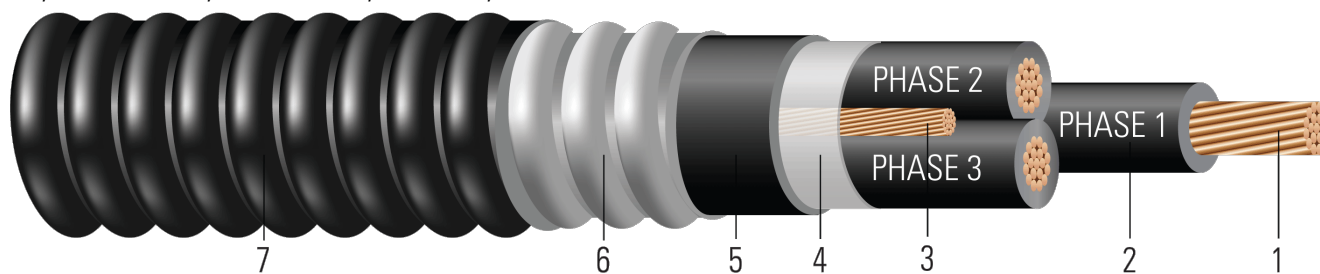


Image not to scale. See Table 1 for dimensions.

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	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil	inch	mil	inch	No. x AWG	inch	lb/1000ft	lb/1000ft
640853	8	0.139	45	0.229	1 x 10	0.956	187	493
640881	1	0.321	85	0.489	1 x 6	1.681	865	1643
640878	1/0	0.360	85	0.528	1 x 6	1.765	1069	1901
640889	3/0	0.454	85	0.622	1 x 4	1.946	1700	2649
640898	4/0	0.510	85	0.666	1 x 4	2.075	2110	3210
640905	350	0.661	95	0.830	1 x 3	2.526	3440	5028
641155	1000	1.117	95	1.306	1 x 1	3.619	9616	12232

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Ampacities based on not more than 3 conductors (4 with neutral) in raceway or cable as per Table 2 of 2015 Canadian Electrical Code Part 1.

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	Shield Short Circuit Current 6 Cycles	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	Amp
640853	8	6.69	396	0.652	0.815	0.033	3754	40	50	55
640881	1	11.77	2009	0.129	0.162	0.028	19029	110	130	145
640878	1/0	12.36	2534	0.102	0.128	0.028	24011	125	150	170
640889	3/0	13.62	4027	0.064	0.081	0.027	38154	165	200	225
640898	4/0	14.53	5078	0.051	0.064	0.026	48114	195	230	260
640905	350	17.7	8400	0.031	0.040	0.026	79583	260	310	350
641155	1000	25	24000	0.011	0.016	0.025	227380	455	545	545

