

CSA TECK 90 1000V ALUMINUM POWER CABLE

1000V FT4 - Flame Retardancy Rating, Direct Burial, XLPE Insulation, Aluminum Interlocked Armour, Sunlight Resistant, -40°C Min, 90°C Max, Rated HL (Hazardous Locations)

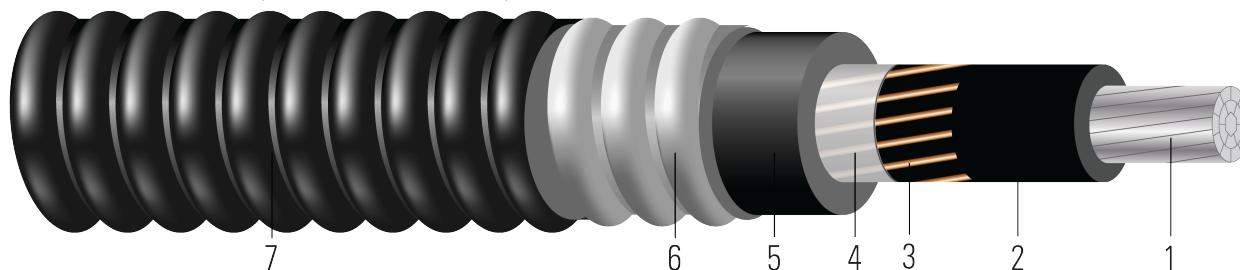


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series Aluminum ACM in accordance with ASTM B801.
2. **Insulation:** Cross-Linked Polyethylene (XLPE)
3. **Grounding Conductors:** Uninsulated copper grounding conductor
4. **Binder:** Mylar binder
5. **Inner Jacket:** Black Polyvinyl Chloride (PVC)
6. **Armor:** Aluminum Interlocked Armour (AIA)
7. **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. AG14 - Acid Gas Compliance. Voltage 1000V CSA / 600V UL.

SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 131 Type TECK 90 Cable
- CSA C22.2 No. 2556 / UL 2556 Cable Test Methods
- CSA HL - for Hazardous Locations rating
- CSA SUN RES - for Sunlight Resistant rating
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE {CSA} LL90458 1/C XXX KCMIL 8000 TECK 90 XLPE -40°C FT4 AG14 SUN RES 90°C 1000V HL USA



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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. Thickness	Inner Jacket Thickness	Concentric Bond	Dia. Over Armour	Overall Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil	No.	mil	mil	No. x AWG	inch	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
672706	500	34	90	60	13x12	1.530	55	1.640	1413	11.4	3000	0.035	0.044	0.039	350
TBA	750	61	90	60	17x12	1.714	55	1.824	1795	12.7	4500	0.024	0.031	0.038	435
TBA	1000	58	90	60	17x12	1.866	55	1.976	2204	13.8	6000	0.018	0.025	0.037	500

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Strand count meets minimum number per ASTM

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Insul. Thickness	Inner Jacket Thickness	Concentric Neutral	Dia. Over Armour	Jacket Thickness ¹	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
	AWG/Kcmil	No.	mm	mm	No. x AWG	mm	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
672706	500	34	2.29	1.52	13x12	38.86	1.40	41.66	2103	289.56	13350	0.11	0.14	0.1280	350
TBA	750	61	2.29	1.52	17x12	43.54	1.40	46.33	2671	322.58	20025	0.08	0.10	0.1247	435
TBA	1000	58	2.29	1.52	17x12	47.40	1.40	50.19	3280	350.52	26700	0.06	0.08	0.1214	500

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Strand count meets minimum number per ASTM

