3/C CSA TECK 90 1000V ALUMINUM POWER CABLE

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

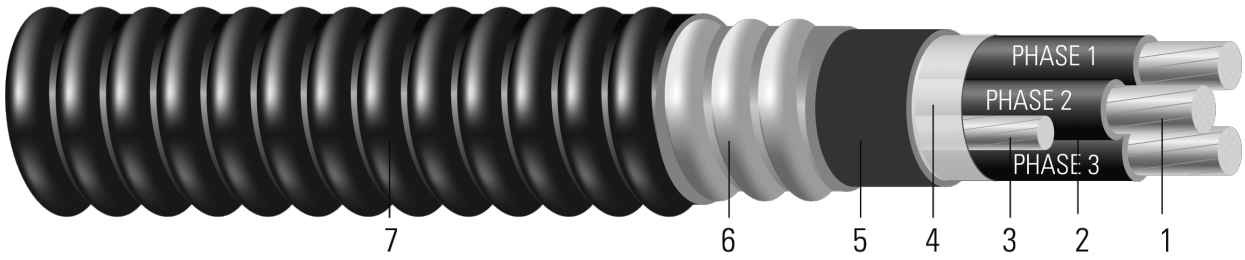


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series Aluminum.
2. **Insulation:** Cross-Linked Polyethylene (XLPE), Color Code: Black and numbered
3. **Grounding Conductors:** Uninsulated Aluminum Class B stranded grounding conductor
4. **Assembly:** Polypropylene tape
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. Voltage 1000V CSA / 600V UL.

SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- ASTM B836 Compact Rounded Stranded Aluminum 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 C22.2 No. 2556 & No. 0.3 Wire and 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_DUAL} SOUTHWIRE® {CSA} LL90458 X/C XX AWG 8000 TECK 90 XLPE -40°C FT4 SUN RES 90°C 1000V HL USA {UL} E96627 TYPE MC XLPE 600V SUN. RES. DIRECT BURIAL 90°C

Table 1 – Weights and Measurements

583961	500	35	0.736	0.927	90	1x1	1	115	2.238	2.566	80	2.732	0	3285

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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
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.

Table 2 – Electrical and Engineering Data

Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
500	19.1	9000	0.036	0.045	0.039	350

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

Table 3 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Diameter Over Conductor	Diameter Over Insulation	Insul. Thickness	Ground	Ground Size	Inner Jacket Thickness	Dia. Over Inner Jacket	Dia. Over Armour	Overall Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil	No.	mm	mm	mm	No. x AWG	AWG	mm	mm	mm	mm	mm	kg/km	kg/km
583961	500	35	18.69	23.55	2.29	1x1	1	2.92	56.85	65.18	2.03	69.39	0	4889

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
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.

Table 4 – Electrical and Engineering Data (Metric)

Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/ Kcmil	mm	newton	Ω/km	Ω/km	Ω/km	Amp
500	485.14	40050	0.1181	0.15	0.1280	350

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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