



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, -40°C Min, 90°C Max, Rated HL (Hazardous Locations)

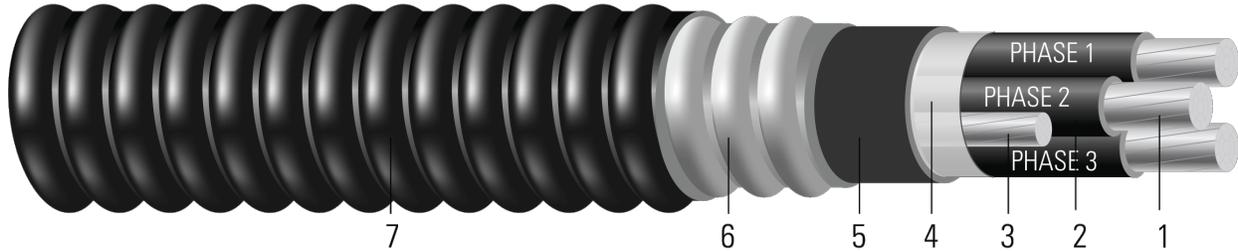


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compact stranded 8000 Series Aluminum.
- Insulation:** Cross-Linked Polyethylene (XLPE), Color Code: Black and numbered
- Grounding Conductors:** Uninsulated Aluminum Class B stranded grounding conductor
- Assembly:** Polypropylene 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. 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 | 3 | 35 | 90 | 1x1 | 115 | 2.565 | 80 | 2.731 | 3284 | 19.1 | 9000 | 0.035 | 0.044 | 0.039 | 350 | B |
|--------|-----|---|----|----|-----|-----|-------|----|-------|------|------|------|-------|-------|-------|-----|---|





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 – Weights and Measurements (Metric)

| Stock Number | Cond. Size | Cond. Number | Strand | Insul. Thickness | Ground | Inner Jacket Thickness | 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 | No. x AWG | mm | mm | mm | mm | kg/km | mm | newton | Ω/km | Ω/km | Ω/km | Amp |
| 583961 | 500 | 3 | 35 | 2.29 | 1x1 | 2.92 | 65.15 | 2.03 | 69.37 | 4887 | 485.14 | 40050 | 0.11 | 0.14 | 0.1280 | 350 |

All dimensions are nominal and subject to normal manufacturing tolerances

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* Strand count meets minimum number per ASTM

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