



## 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)

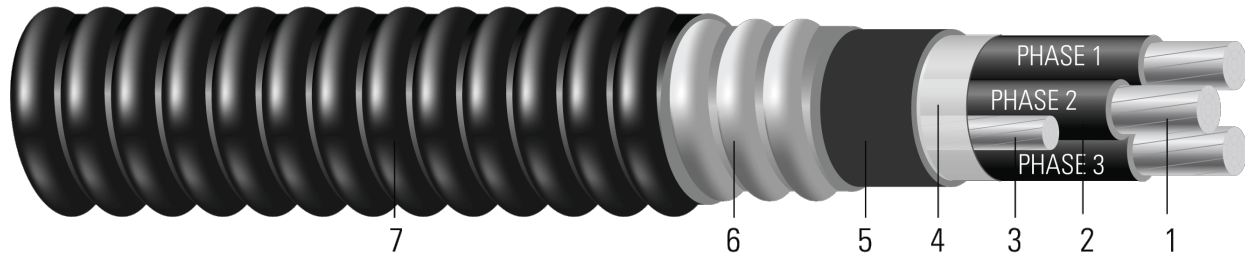


Image not to scale. See Table 1 for dimensions.

### 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**

|        |     |   |    |    |       |     |       |    |       |      |      |       |       |       |       |     |   |
|--------|-----|---|----|----|-------|-----|-------|----|-------|------|------|-------|-------|-------|-------|-----|---|
| 668789 | 750 | 3 | 53 | 90 | 1x1/0 | 115 | 2.937 | 80 | 3.103 | 4318 | 21.7 | 13500 | 0.024 | 0.031 | 0.038 | 435 | 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 <sup>1</sup> | 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                                |
| 668789       | 750        | 3            | 53     | 2.29             | 1x1/0     | 2.92                   | 74.60            | 2.03                          | 78.82      | 6426           | 551.18             | 60075            | 0.08                 | 0.10                 | 0.1247                     | 435                                |

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