

## 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)

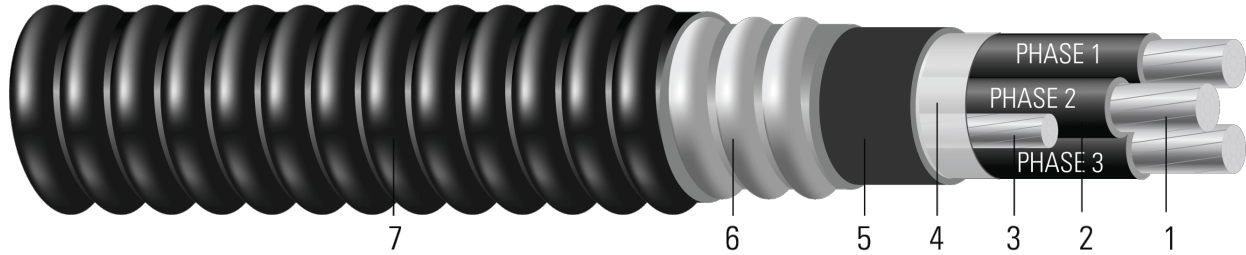


Image not to scale. See Table 1 for dimensions.

### 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**

|                     |   |   |   |    |     |    |       |    |       |     |     |     |       |       |       |    |   |
|---------------------|---|---|---|----|-----|----|-------|----|-------|-----|-----|-----|-------|-------|-------|----|---|
| 674938 <sup>A</sup> | 4 | 3 | 7 | 60 | 1x6 | 85 | 1.226 | 55 | 1.336 | 684 | 9.3 | 751 | 0.424 | 0.510 | 0.048 | 75 | 1 |
|---------------------|---|---|---|----|-----|----|-------|----|-------|-----|-----|-----|-------|-------|-------|----|---|





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                                |
| 674938       | 4          | 3            | 7      | 1.52             | 1x6       | 2.16                   | 31.14            | 1.40                          | 33.93      | 1018           | 236.22             | 3342             | 1.39                 | 1.67                 | 0.1575                     | 75                                 |

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