



## CSA TECK 90 600V PVC CONTROL CABLE

600V Multi Conductor, 14-10 AWG Copper, FT4 - Flame Retardancy Rating, XLPE Insulation, Aluminum Interlocked Armour, Sunlight Resistant, -40°C - 90°C, Rated HL, AG14



### CONSTRUCTION:

1. **Conductor:** Class B stranded copper, compressed or compact, in accordance with ASTM B3 and B8.
2. **Insulation:** Cross-Linked Polyethylene (XLPE), Colour Code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; For 5/C cables or more, the insulation is black and numbered
3. **Grounding Conductors:** Uninsulated Class B stranded grounding conductor
4. **Inner Jacket:** Black Polyvinyl Chloride (PVC)
5. **Armor:** Aluminum Interlocked Armour (AIA)
6. **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, or hazardous locations. 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.

- -40°C - CSA Cold Bend and Impact Temperature
- -40°C - Min. Installation Temperature
- 90°C - Max. Continuous Operating Temperature

### SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- 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 LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA HL - for Hazardous Locations rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA AG14 - Acid Gas Compliance
- IEEE 383 Flame Test (70,000 btu)
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test





**SAMPLE PRINT LEGEND:**

{SQMTR} SOUTHWIRE {CSA} LL90458 X/C XX AWG CU TECK 90 XLPE -40°C FT4 AG14 SUN RES 90°C 600V HL USA

**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size | Cond. Number | Strand | Insul. Thickness | Ground    | Inner Jacket Thickness | 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              | No. x AWG | mil                    | inch             | mil                      | inch       | lb/1000ft      | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 589343       | 10         | 12           | 7      | 30               | 1x12      | 85                     | 1.211            | 45                       | 1.301      | 911            | 9.1                | 996              | 1.040                | 1.253                | 0.050                      | 20                                  |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\* Use Table 5C in the 2015 Canadian Electrical Code to derate this ampacity as per Rules 4-004 & 12-2210

† Ampacities based on not more than 3 conductors (4 with neutral) in raceway or cable as per Table 2 of 2015 Canadian Electrical Code

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                                |
| 589343       | 10         | 12           | 7      | 0.76             | 1x12      | 2.16                   | 30.76            | 1.14                          | 33.05      | 1356           | 231.14             | 4432             | 3.41                 | 4.11                 | 0.1640                     | 20                                 |

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