

## TECK 90 SPECIFICATIONS CSA TECK 90 – 1000V POWER CABLE



- 1000V MULTI CONDUCTOR
- No. 8 & UP AWG COPPER

- XLPE INSULATION
- ALUMINUM INTERLOCKED ARMOUR

- -40°C MIN, 90°C MAX
- RATED HL (HAZARDOUS LOCATIONS)

### PRODUCT HIGHLIGHTS

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 or dry locations. Sunlight Resistant. Typical applications are primarily for power as well as lighting and control circuits in: pulp and paper mills, steel mills, foodprocessing plants, commercial centers, mines, generating stations, refineries, chemical plants and other industrial applications.

### CONSTRUCTION

#### Conductor

- Class B stranded copper

#### Insulation

- Cross-Linked Polyethylene (XLPE)
- Colour Code:
  - 2/C black, white
  - 3/C red, black, blue
  - 4/C red, black, blue, white
  - For cables larger than No. 2 AWG or more than 4/C, the insulation is black and numbered

#### Grounding Conductors

- Uninsulated Class B stranded grounding conductor

#### Assembly

- Multiple conductor cables assembled with suitable fillers and binder tape

#### Inner Jacket

- Polyvinyl Chloride (PVC)

#### Armour

- Aluminum Interlocked Armour (AIA)

#### Overall Jacket

- Black PVC (optional colours available)

#### Temperature

- -40°C to 90°C

#### Voltage

- 1000V

### DESIGN

#### Qualification Standards

- CSA C22.2 No. 131 - Type TECK 90 Cable
- CSA C22.2 No. 174 - Cables in Hazardous Locations
- CSA C22.2 No. 0.3 - Wire and Cable Test Methods

#### Flame Test Ratings

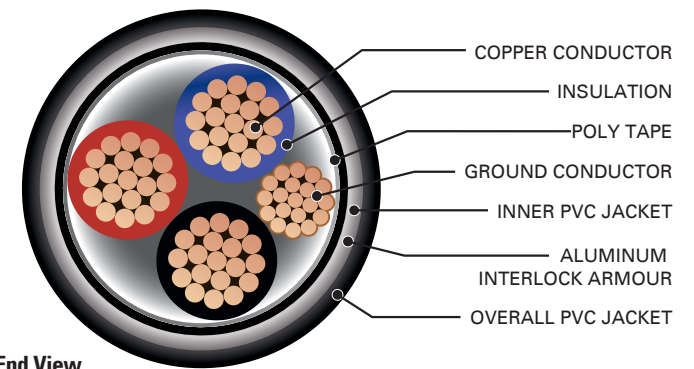
- FT4 - Flame Test (70,000 BTU/Hr - Vertical Tray Flame Test)
- IEEE 383 - Flame Test (70,000 BTU/Hr)

#### Product Ratings

- CSA C22.2 No. 0.3 - Wire and Cable Test Methods
- CSA HL - for Hazardous Locations rating
- CSA FT4 - for Flame Retardancy rating
- CSA SUN RES - for Sunlight Resistant rating

#### Operating Temperatures

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



End View



# TECK 90 SPECIFICATIONS

## CSA TECK 90 – 1000V POWER CABLE



### SPECIFICATIONS

| Stock Number | Conductor         |                      | Grounding Conductor Size | Approximate Diameter |        |              | Approximate Weight | Ampacity (Amps) 30°C Ambient † |      |
|--------------|-------------------|----------------------|--------------------------|----------------------|--------|--------------|--------------------|--------------------------------|------|
|              |                   |                      |                          | Inner Jacket         | Armour | Outer Jacket |                    | 75°C                           | 90°C |
|              | Size AWG or kcmil | Number of Conductors | AWG                      | inches               | inches | inches       | lb/1000 ft         |                                |      |
| 56860599     | 8                 | 2                    | 10                       | 0.590                | 0.800  | 0.900        | 397                | 50                             | 55   |
| 56196399     | 8                 | 3                    | 10                       | 0.627                | 0.837  | 0.917        | 466                | 50                             | 55   |
| 56196499     | 8                 | 4                    | 10                       | 0.681                | 0.891  | 0.991        | 553                | 50                             | 55   |
| 57382199     | 6                 | 2                    | 8                        | 0.720                | 0.930  | 1.030        | 536                | 65                             | 75   |
| 56196599     | 6                 | 3                    | 8                        | 0.768                | 1.088  | 1.187        | 710                | 65                             | 75   |
| 56196699     | 6                 | 4                    | 8                        | 0.883                | 1.203  | 1.283        | 888                | 65                             | 75   |
| 58200599     | 4                 | 2                    | 8                        | 0.807                | 1.129  | 1.229        | 730                | 85                             | 95   |
| 56196799     | 4                 | 3                    | 8                        | 0.907                | 1.228  | 1.328        | 958                | 85                             | 95   |
| 56196899     | 4                 | 4                    | 8                        | 0.994                | 1.318  | 1.394        | 1,144              | 85                             | 95   |
| 56197099     | 3                 | 3                    | 6                        | 0.965                | 1.285  | 1.385        | 1,116              | 100                            | 115  |
| 56197199     | 3                 | 4                    | 6                        | 1.058                | 1.378  | 1.458        | 1,351              | 100                            | 115  |
| 57118499     | 2                 | 2                    | 6                        | 0.963                | 1.283  | 1.383        | 1,016              | 115                            | 130  |
| 56197299     | 2                 | 3                    | 6                        | 1.030                | 1.350  | 1.450        | 1,281              | 115                            | 130  |
| 56197399     | 2                 | 4                    | 6                        | 1.131                | 1.451  | 1.551        | 1,559              | 115                            | 130  |
| 56197499     | 1                 | 3                    | 6                        | 1.211                | 1.531  | 1.651        | 1,595              | 130                            | 145  |
| 56197599     | 1                 | 4                    | 6                        | 1.333                | 1.653  | 1.773        | 1,970              | 130                            | 145  |
| 56197699     | 1/0               | 3                    | 6                        | 1.295                | 1.615  | 1.735        | 1,867              | 150                            | 170  |
| 56197899     | 1/0               | 4                    | 6                        | 1.427                | 1.747  | 1.868        | 2,303              | 150                            | 170  |
| 56194899     | 2/0               | 3                    | 6                        | 1.390                | 1.710  | 1.830        | 2,282              | 175                            | 195* |
| 56194999     | 2/0               | 4                    | 6                        | 1.533                | 1.864  | 1.984        | 2,774              | 175                            | 195* |
| 58640099     | 3/0               | 2                    | 4                        | 1.400                | 1.720  | 1.840        | 1,996              | 200                            | 225  |
| 56195099     | 3/0               | 3                    | 4                        | 1.498                | 1.818  | 1.938        | 2,623              | 200                            | 225  |
| 56195299     | 3/0               | 4                    | 4                        | 1.654                | 1.984  | 2.104        | 3,338              | 200                            | 225  |
| 56195399     | 4/0               | 3                    | 4                        | 1.619                | 1.949  | 2.047        | 3,168              | 230                            | 260  |
| 56195499     | 4/0               | 4                    | 4                        | 1.849                | 2.179  | 2.299        | 4,103              | 230                            | 260  |
| 56195599     | 250               | 3                    | 4                        | 1.826                | 2.156  | 2.275        | 3,760              | 255                            | 290  |
| 56195699     | 250               | 4                    | 4                        | 2.013                | 2.343  | 2.464        | 4,878              | 255                            | 290  |
| 56195799     | 300               | 3                    | 4                        | 1.940                | 2.270  | 2.420        | 4,378              | 285                            | 320  |
| 56195899     | 300               | 4                    | 4                        | 2.141                | 2.471  | 2.622        | 5,512              | 285                            | 320  |
| 56195999     | 350               | 3                    | 3                        | 2.048                | 2.378  | 2.529        | 4,962              | 310                            | 350  |
| 56196099     | 350               | 4                    | 3                        | 2.262                | 2.592  | 2.742        | 6,266              | 310                            | 350  |
| 56196199     | 500               | 3                    | 3                        | 2.327                | 2.657  | 2.807        | 6,574              | 380                            | 430  |
| 56196299     | 500               | 4                    | 3                        | 2.573                | 2.903  | 3.054        | 8,382              | 380                            | 430  |
| 59231499     | 600               | 3                    | 2                        | 2.491                | 2.764  | 2.971        | 7,660              | 420                            | 475  |
| 56847899     | 750               | 3                    | 2                        | 2.711                | 3.041  | 3.211        | 9,286              | 475                            | 535  |
| 56847999     | 750               | 4                    | 2                        | 3.063                | 3.393  | 3.563        | 12,120             | 475                            | 535  |

\* Please see note under Table 2 of the 2012 Canadian Electrical Code

† Ampacities based on not more than 3 conductors (4 with neutral) in raceway or cable as per Table 2 of 2012 Canadian Electrical Code

