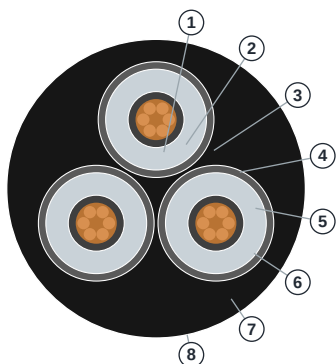




## 5/8kV Medium-Voltage Power Cable

Copper · Compressed · TRXLPE · 133/100% IL · PVC · 3-Conductor



### CONSTRUCTION

- |                               |                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>1. Conductor</b>           | Class B compressed stranded bare copper per ASTM B3 and ASTM B8 (Tinned Copper per ASTM B33 optional)        |
| <b>2. Conductor Shield</b>    | Semi-conducting cross-linked copolymer                                                                       |
| <b>3. Insulation</b>          | 115 Mils Tree Retardant Cross Linked Polyethylene (TRXLPE) 133% Insulation Level,                            |
| <b>4. Insulation Shield</b>   | Strippable semi-conducting cross-linked copolymer                                                            |
| <b>5. Copper Tape Shield</b>  | Helically wrapped 5 mil copper tape with 25% overlap                                                         |
| <b>6. Grounding Conductor</b> | Class B compressed stranded bare copper ground per ASTM B3 and ASTM B8 (Tinned Copper per ASTM B33 optional) |
| <b>7. Filler</b>              | Wax paper filler                                                                                             |
| <b>8. Binder</b>              | Poly glass tape                                                                                              |
| <b>9. Overall Jacket</b>      | Polyvinyl Chloride (PVC)                                                                                     |

### APPLICATIONS & FEATURES

Tanner's 5KV cables are suited for use in wet and dry areas, conduits, ducts, troughs, direct burial, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions. Rated at -35°C for cold bend when UL listed. Rated at -40°C for cold bend and cold impact and marked with "LTGG" when CSA listed or dual UL/CSA listed. For uses in Class I and II, Division 2 hazardous locations per NEC Article 501 and 502. Rated for 1000 lbs./FT maximum sidewall pressure.

### SPECIFICATIONS & STANDARDS

- |                                                                                                                                                                                                           |                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| • ASTM B3 Soft or Annealed Copper Wire                                                                                                                                                                    | • ASTM B8 Concentric-Lay-Stranded Copper Conductors                    |
| • ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire                                                                                                                             | • UL 1072 Medium-Voltage Power Cables                                  |
| • ICEA S-93-639 (NEMA WC 74) 5-46 KV Shielded Power Cable                                                                                                                                                 | • ICEA S-97-682 Standard for Shielded Utility Cable Rated for 5 - 46kV |
| • AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV (Qualification Test)                                                                                     | • Requirements)                                                        |
| • Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661 |                                                                        |

**TABLE 1 — DIMENSIONS & WEIGHTS**

| Tanner Part No.  | Size<br>AWG/kcmil | @ 25°C<br>Ω/1000ft | @ 90°C<br>Ω/1000ft | 60Hz<br>MΩ*1000ft | 60Hz<br>Ω/1000ft | Impedance<br>Ω/1000ft | Impedance<br>Ω/1000ft | Current 6 Cycles<br>Amp | Duct 90/105°C<br>Amp | 90/105°C<br>Amp |
|------------------|-------------------|--------------------|--------------------|-------------------|------------------|-----------------------|-----------------------|-------------------------|----------------------|-----------------|
| 05C-CRXDP3C-0002 | 2                 | 0.162              | 0.204              | 0.045             | 0.040            | 0.499 + j0.404        | 0.133 + j0.045        | 1920                    | 135/145              | 140/154         |
| 05C-CRXDP3C-0001 | 1                 | 0.128              | 0.162              | 0.041             | 0.039            | 0.499 + j0.404        | 0.133 + j0.045        | 2044                    | 155/165              | 160/180         |
| 05C-CRXDP3C-0100 | 1/0               | 0.102              | 0.128              | 0.037             | 0.037            | 0.499 + j0.404        | 0.133 + j0.045        | 2165                    | 175/190              | 185/205         |
| 05C-CRXDP3C-0200 | 2/0               | 0.081              | 0.102              | 0.034             | 0.036            | 0.499 + j0.429        | 0.128 + j0.044        | 2302                    | 200/220              | 215/240         |
| 05C-CRXDP3C-0300 | 3/0               | 0.064              | 0.081              | 0.031             | 0.035            | 0.499 + j0.429        | 0.128 + j0.044        | 2459                    | 230/250              | 250/280         |
| 05C-CRXDP3C-0400 | 4/0               | 0.051              | 0.065              | 0.028             | 0.034            | 0.499 + j0.429        | 0.128 + j0.044        | 2633                    | 265/280              | 285/320         |
| 05C-CRXDP3C-250M | 250               | 0.043              | 0.056              | 0.027             | 0.033            | 0.499 + j0.429        | 0.128 + j0.044        | 2800                    | 290/315              | 320/355         |
| 05C-CRXDP3C-350M | 350               | 0.031              | 0.041              | 0.023             | 0.032            | 0.499 + j0.429        | 0.128 + j0.044        | 3120                    | 355/380              | 395/440         |
| 05C-CRXDP3C-500M | 500               | 0.022              | 0.030              | 0.020             | 0.030            | 0.499 + j0.429        | 0.128 + j0.044        | 3516                    | 430/460              | 485/545         |
| 05C-CRXDP3C-750M | 750               | 0.014              | 0.023              | 0.017             | 0.029            | 0.499 + j0.429        | 0.128 + j0.044        | 4102                    | 530/570              | 615/685         |