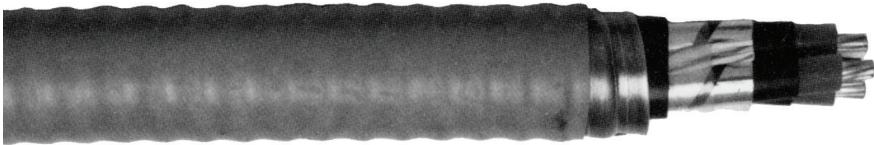


# HVTECK

TRXLPE/Tape Shield/PVC/AIA/PVC, Power, Shielded, Armored  
5 kV (133% Ins. Level)/8 kV (100% Ins. Level)  
115 Mils, CSA HVTECK, Three Conductor

Product Construction:

- Conductor:
- 6 AWG thru 1000 kcmil bare copper compact Class B strand
- Strand Shield:
- A thermoset semi-conducting strand shield is extruded over the conductor
- Insulation:
- Tree-Retardant Cross-linked Polyethylene (TRXLPE)
- Insulation Shield:
- A semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
  - Color-coded: black, red or blue colored tape placed longitudinally under the copper tape shield
- Ground (Bonding) Conductor:
- The conductor consists of one uninsulated stranded bare copper conductor
- Inner Jacket:
- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black
- Armor:
- Aluminum Interlocked Armor (AIA)



- Overall Jacket:
- Lead-free, ACID-FLAME-CHECK  $\sqrt{v}$ ® flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange
- Options:
- 105°C TRXLPE Insulation
  - Galvanized Steel Interlocked Armor (GSIA)
- Applications:
- For wiring in all hazardous locations when used with certified HL cable glands
  - For exposed and concealed wiring in dry, damp or wet locations
  - For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
  - For direct earth burial (with protection as required by inspection authority)
- Features:
- Rated at 90°C wet or dry
  - Excellent crush, oil and chemical resistance
  - Provides long service life
  - Cost-effective alternative to installations in conduit
  - Meets cold bend and impact tests at -40°C
- Compliances:
- Industry Compliances:
- CSA Standard C68.10 MV68.10
- Flame Test Compliances:
- CSA FT1 and FT4
  - IEEE 1202 (70,000 BTU/hr) CSA FT4
- Other Compliances:
- Hazardous Location Rating: HL
  - EPA 40 CFR, Part 261 for leachable lead content per TCLP method
  - OSHA Acceptable
  - RoHS Compliant
- Packaging:
- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
  - For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

| NO. OF COND.                                                                                  | COND. SIZE (AWG/kcmil) | GROUND WIRE SIZE (AWG) | NOMINAL DIAMETER (OVER) |      |                   |      |              |      |        |      |        |      | COPPER WEIGHT |        | NET WEIGHT W/ARMOR |       |       |       | OUTDOOR AMPACITY** (40 °C AMBIENT) |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------|-------------------------|------|-------------------|------|--------------|------|--------|------|--------|------|---------------|--------|--------------------|-------|-------|-------|------------------------------------|
|                                                                                               |                        |                        | INSULATION              |      | INSULATION SHIELD |      | INNER JACKET |      | ARMOR  |      | CABLE  |      | LBS/1000 FT   | kg/ km | LBS/1000 FT        |       | kg/km |       |                                    |
|                                                                                               |                        |                        | INCHES                  | mm   | INCHES            | mm   | INCHES       | mm   | INCHES | mm   | INCHES | mm   |               |        | AL                 | STEEL | AL    | STEEL |                                    |
| 6 AWG THRU 1000 kcmil—THREE CONDUCTOR—SHIELDED, 133% INS. LEVEL, 115 MILS INS. (2.92 mm)—5 kV |                        |                        |                         |      |                   |      |              |      |        |      |        |      |               |        |                    |       |       |       |                                    |
| 3                                                                                             | 6                      | 8                      | 0.44                    | 11.2 | 0.51              | 13.0 | 1.27         | 32.3 | 1.55   | 39.4 | 1.65   | 41.9 | 352           | 524    | 1270               | 1780  | 1890  | 2650  | 93                                 |
| 3                                                                                             | 4                      | 8                      | 0.50                    | 12.6 | 0.56              | 14.1 | 1.39         | 35.3 | 1.64   | 41.7 | 1.75   | 44.5 | 447           | 665    | 1508               | 2068  | 2244  | 3077  | 122                                |
| 3                                                                                             | 2                      | 6                      | 0.54                    | 13.7 | 0.61              | 15.5 | 1.50         | 38.1 | 1.78   | 45.2 | 1.88   | 47.8 | 710           | 1056   | 1930               | 2489  | 2872  | 3704  | 141                                |
| 3                                                                                             | 1                      | 6                      | 0.57                    | 14.5 | 0.64              | 16.3 | 1.57         | 39.9 | 1.86   | 47.2 | 1.96   | 49.8 | 939           | 1397   | 2150               | 2709  | 3199  | 4032  | 161                                |
| 3                                                                                             | 1/0                    | 6                      | 0.61                    | 15.6 | 0.67              | 17.1 | 1.65         | 41.9 | 1.94   | 49.3 | 2.06   | 52.3 | 875           | 1302   | 2360               | 3047  | 3511  | 4534  | 184                                |
| 3                                                                                             | 2/0                    | 6                      | 0.65                    | 16.5 | 0.72              | 18.3 | 1.80         | 45.7 | 2.09   | 53.1 | 2.19   | 55.6 | 1340          | 1994   | 2890               | 3578  | 4300  | 5324  | 212                                |
| 3                                                                                             | 3/0                    | 4                      | 0.70                    | 17.8 | 0.76              | 19.3 | 1.90         | 48.3 | 2.19   | 55.6 | 2.29   | 58.2 | 1798          | 2675   | 3360               | 4048  | 5000  | 6023  | 242                                |
| 3                                                                                             | 4/0                    | 4                      | 0.76                    | 19.2 | 0.82              | 20.7 | 1.99         | 50.5 | 2.28   | 57.9 | 2.39   | 60.7 | 2130          | 3169   | 3815               | 4620  | 5676  | 6875  | 278                                |
| 3                                                                                             | 250                    | 4                      | 0.81                    | 20.6 | 0.87              | 22.1 | 2.15         | 54.6 | 2.44   | 62.0 | 2.58   | 65.6 | 2494          | 3711   | 4309               | 5237  | 6411  | 7793  | 306                                |
| 3                                                                                             | 350                    | 3                      | 0.90                    | 22.9 | 0.96              | 24.4 | 2.31         | 58.7 | 2.60   | 66.1 | 2.73   | 69.4 | 3471          | 5164   | 5538               | 6466  | 8240  | 9622  | 373                                |
| 3                                                                                             | 500                    | 3                      | 1.02                    | 25.9 | 1.08              | 27.4 | 2.60         | 66.0 | 2.89   | 73.4 | 3.03   | 76.9 | 4884          | 7268   | 6982               | 8038  | 10389 | 11960 | 450                                |
| 3                                                                                             | 750                    | 2                      | 1.19                    | 30.2 | 1.25              | 31.7 | 2.98         | 75.7 | 3.27   | 83.1 | 3.42   | 86.9 | 7440          | 11071  | 10117.5            | 11301 | 15055 | 16815 | 545                                |
| 3                                                                                             | 1000                   | 1                      | 1.35                    | 34.3 | 1.44              | 36.6 | 3.42         | 86.9 | 3.71   | 94.3 | 3.86   | 98.1 | 9860          | 14678  | 13300              | 14870 | 19790 | 22130 | 640                                |

Dimensions and weights are nominal; subject to industry tolerances.  
\*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.  
\*\*Ampacities at other voltage levels do not vary significantly.  
Special approval by local electrical inspection authorities may be required (Ref. CE Code Part 1, Appendix B, Rule 4-004).  
Ampacity based on CE Code Table D17N and Rule 4-004.