

VERTITECK® TECK90

TRXLPE/PVC/GSIA/PVC, Power, Unshielded, Armored 5 kV
CSA TECK90, 90 Mils, Three Conductor

Product Construction:

Conductor:

- 1/0 AWG thru 500 kcmil bare copper compact strand

Strand Shield:

- A thermoset semi-conducting strand shield is extruded over the conductor

Insulation:

- Tree-Retardant Cross-linked Polyethylene (TRXLPE), Type RW90
- Color-coded: printed numbers

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:

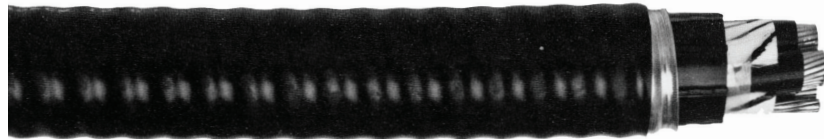
- Galvanized Steel Interlocked Armor (GSIA)

Jacket:

- Lead-free, ACID-FLAME-CHECK \sqrt{v} ® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Applications:

- 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)



Applications (cont'd):

- For wiring in all hazardous locations when used with certified HL cable glands
- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors
- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation
- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- Meets cold bend and impact tests at -40°C

Compliances:

Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

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

| CATALOG NUMBER | NO. OF COND. | COND. SIZE (AWG/kcmil) | GROUND WIRE SIZE (AWG) | NOMINAL DIAMETER (OVER) | | | | | | COPPER WEIGHT | | NET WEIGHT W/STEEL ARMOR | | AMPACITY** (30°C AMBIENT) | MAXIMUM SELF-SUPPORTING LENGTH*** (m) |
|--|--------------|------------------------|------------------------|-------------------------|------|--------|------|--------|------|---------------|-------|--------------------------|-------|---------------------------|---------------------------------------|
| | | | | INSULATION | | ARMOR | | CABLE | | | | | | | |
| | | | | INCHES | mm | INCHES | mm | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km | | |
| 1/0 AWG THRU 500 kcmil—THREE CONDUCTOR—UNSHIELDED, 90 MILS INS. (2.29 mm)—5 kV | | | | | | | | | | | | | | | |
| 17497.055100* | 3 | 1/0 | 6 | 0.56 | 14.2 | 1.77 | 45.0 | 1.87 | 47.5 | 1082 | 1610 | 2700 | 4020 | 170 | 200 |
| 17497.055200* | 3 | 2/0 | 6 | 0.60 | 15.3 | 1.97 | 50.0 | 2.09 | 53.1 | 1340 | 1994 | 3270 | 4865 | 195 | 221 |
| 17497.055300* | 3 | 3/0 | 4 | 0.65 | 16.4 | 1.97 | 50.0 | 2.07 | 52.6 | 1720 | 2560 | 3550 | 5280 | 225 | 240 |
| 17497.055400* | 3 | 4/0 | 4 | 0.70 | 17.8 | 2.08 | 52.9 | 2.18 | 55.4 | 2315 | 3445 | 4290 | 6380 | 260 | 249 |
| 17497.056000* | 3 | 250 | 4 | 0.75 | 19.1 | 2.25 | 57.2 | 2.35 | 59.7 | 2469 | 3674 | 4990 | 7430 | 290 | 251 |
| 17497.056200* | 3 | 350 | 3 | 0.85 | 21.8 | 2.46 | 62.5 | 2.59 | 65.8 | 3476 | 5173 | 6340 | 9430 | 350 | 278 |
| 17497.056500* | 3 | 500 | 2 | 0.98 | 24.9 | 2.72 | 69.1 | 2.85 | 72.4 | 4837 | 7198 | 8130 | 12100 | 430 | 230 |

Dimensions and weight are nominal; subject to industry tolerances.

*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

**Ampacity is based on CE Code Part 1, Table 2 (three conductors in raceway [conduit]) and Rule 4-004.

***Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper. Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.