

VERTITECK® HVTECK

TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored
15 kV, CSA HVTECK, 133% Ins. Level, 220 Mils, Three Conductor

Product Construction:

Conductor:

- 2 AWG thru 750 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:

- This consists of a semi-conducting thermosetting layer, applied in a triple extrusion process, plus a helically applied gapped copper tape
- Color code: 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:

- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

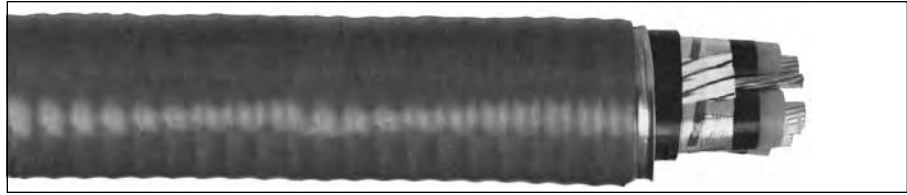
- Lead-free, ACID-FLAME-CHECK ✓✓® AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red

Options:

- Galvanized Steel Interlocked Armor (GSIA)

Applications:

- For exposed and concealed wiring in dry, damp or wet locations



Applications (cont'd.):

- 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)
 - 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 C68.10

Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)
- ICEA T-29-520 (210,000 BTU/hr)

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		MAXIMUM SELF-SUPPORTING LENGTH** (M)
				INSULATION		INSULATION SHIELD		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm					

2 AWG THRU 750 kcmil—THREE CONDUCTOR—133% INS. LEVEL, 220 MILS INS. (5.59 mm)—15 kV

17497.540200*	3	2	6	0.76	19.3	0.82	20.8	2.50	63.5	2.66	67.6	862	1283	4138	6157	85
17497.540100*	3	1	6	0.79	20.1	0.85	21.6	2.57	65.3	2.73	69.3	1034	1539	4424	6583	100
17497.545100*	3	1/0	6	0.83	21.1	0.89	22.6	2.65	67.3	2.81	71.4	1245	1853	4765	7090	118
17497.545200*	3	2/0	6	0.87	22.1	0.93	23.6	2.74	69.6	2.90	73.7	1513	2251	5181	7709	137
17497.545300*	3	3/0	4	0.92	23.4	0.98	24.9	2.84	72.1	3.00	76.2	1899	2826	5757	8566	155
17497.545400*	3	4/0	4	0.97	24.6	1.03	26.2	2.95	74.9	3.12	79.2	2321	3454	6392	9511	176
17497.546000*	3	250	4	1.01	25.7	1.09	27.7	3.08	78.2	3.27	83.1	2697	4013	7096	10559	188
17497.546200*	3	350	3	1.12	28.4	1.18	30.0	3.36	85.3	3.54	89.9	3692	5494	8674	12907	215
17497.546500*	3	500	3	1.23	31.2	1.30	33.0	3.62	91.9	3.80	96.5	5218	7764	10646	15841	250
17497.547000*	3	750	2	1.41	35.8	1.48	37.6	4.00	101.6	4.19	106.4	8124	12089	14417	21452	277

Dimensions and weights are nominal; subject to industry tolerances.

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

**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.