

VERTITECK® HVTECK

TRXLPE/Tape Shield/PVC/GSIA/PVC, Power, Shielded, Armored 15 kV
CSA HVTECK, 100% Ins. Level, 175 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:

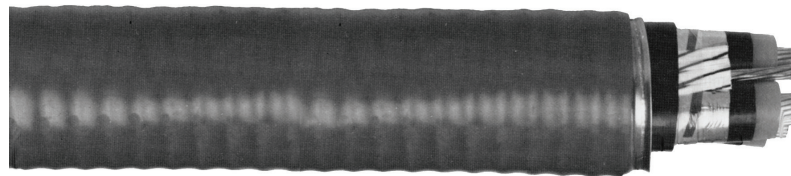
- Galvanized Steel Interlocked Armor (GSIA)

Overall Jacket:

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

Options:

- 105°C TRXLPE Insulation



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)
- 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 MV68.10

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						
				INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km	
2 AWG THRU 750 kcmil—THREE CONDUCTOR—100% INS. LEVEL, 175 MILS INS. (4.45 mm)—15 kV																
17497.440200*	3	2	6	0.67	17.0	0.72	18.3	2.30	58.4	2.46	62.5	845	1257	3761	5596	94
17497.440100*	3	1	6	0.70	17.8	0.76	19.3	2.37	60.2	2.53	64.3	1017	1513	4022	5985	110
17497.445100*	3	1/0	6	0.74	18.8	0.80	20.3	2.46	62.5	2.61	66.3	1229	1829	4385	6525	128
17497.445200*	3	2/0	6	0.78	19.8	0.84	21.3	2.55	64.8	2.71	68.8	1497	2228	4800	7142	147
17497.445300*	3	3/0	4	0.83	21.1	0.89	22.6	2.67	67.8	2.83	71.9	1882	2800	5354	7967	166
17497.445400*	3	4/0	4	0.88	22.4	0.94	23.9	2.79	70.9	2.95	74.9	2304	3428	5979	8897	188
17497.446000*	3	250	4	0.92	23.4	0.98	24.9	2.89	73.4	3.05	77.5	2677	3983	6518	9699	204
17497.446200*	3	350	3	1.02	25.9	1.09	27.7	3.15	80.0	3.33	84.6	3675	5468	8043	11968	231
17497.446500*	3	500	3	1.14	29.0	1.21	30.7	3.47	88.1	3.66	93.0	5111	7605	10132	15076	262
17497.447000*	3	750	2	1.32	33.5	1.39	35.3	3.86	98.0	4.04	102.6	7555	11242	13403	19944	298

Dimensions and weight 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.