

HVTECK

TRXLPE/Wire Shield/PVC/AIA/PVC, Power, Shielded, Armored 5 kV
CSA HVTECK, 100% Ins. Level, 90 Mils, Single 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:

- Black semi-conducting thermosetting layer, applied in a triple extrusive process, plus a concentric serving of solid copper wires acting as both a drain wire shield and a grounding (bonding) conductor

Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid copper wires applied over the thermosetting insulation shield

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 γ/γ° 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/AL ARMOR		OUTDOOR AMPACITY** (40 °C AMBIENT)
			INSULATION		INSULATION SHIELD		INNER JACKET		ARMOR		CABLE						
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	

**6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—SHIELDED,
100% INS. LEVEL, 90 MILS INS. (2.29 mm)—5 kV**

1	6	8	0.39	10.0	0.47	11.9	0.68	17.3	0.90	22.9	0.99	25.2	144	214	510	770	112
1	4	6	0.43	10.5	0.51	13.0	0.72	18.3	0.94	23.9	1.03	26.2	224	333	590	880	148
1	2	6	0.49	12.5	0.57	14.5	0.78	19.8	1.03	26.2	1.12	28.5	302	449	750	1120	198
1	1	4	0.52	13.3	0.60	15.3	0.81	20.6	1.06	27.0	1.15	29.2	406	604	870	1300	225
1	1/0	4	0.56	14.2	0.63	16.0	0.88	22.4	1.13	28.7	1.22	31.0	475	707	1010	1500	255
1	2/0	4	0.60	15.2	0.67	17.0	0.92	23.4	1.17	29.7	1.26	32.0	562	836	1120	1670	291
1	3/0	3	0.64	16.3	0.71	18.1	0.97	24.7	1.22	31.0	1.31	33.3	709	1055	1300	1930	327
1	4/0	3	0.70	17.8	0.76	19.3	1.02	25.9	1.27	32.3	1.36	34.6	843	1255	1470	2180	373
1	250	2	0.75	19.1	0.82	20.8	1.10	28.0	1.38	35.1	1.48	37.6	1013	1508	1680	2500	417
1	350	1	0.85	21.5	0.96	24.4	1.24	31.5	1.52	38.6	1.62	41.2	1389	2067	2120	3150	491
1	500	1/0	0.97	24.7	1.03	26.2	1.33	33.9	1.62	41.2	1.74	44.3	1905	2835	2708	4030	562
1	750	2/0	1.15	29.2	1.21	30.7	1.54	39.1	1.83	46.6	1.95	49.6	2782	4139	3730	5550	642
1	1000	2/0	1.30	33.0	1.39	35.3	1.76	44.7	2.05	52.1	2.15	54.6	3607	5368	5010	7460	740

Dimensions and weights are nominal; subject to industry tolerances.

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

**Open circuit (shield/armor) is assumed. 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 D17M and Rule 4-004.