



POWER KABEL INC.

TECK90-HL 5KV
3C ALUMINUM SHIELDED TRXLPE INSULATION @ 100% ALUMINUM ARMOR OVERALL PVC JACKET CSA (-40°C) FT4

APPLICATIONS & FEATURES:

CSA armored cable for industrial and commercial medium voltage applications. Rated FT4, -40°C, Hazardous Locations (HL) and 105°C for use in harsh Canadian environments. For installation in cable trays, duct banks, direct burial, troughs, continuous rigid cable supports and concrete encaseable

INDUSTRY COMPLIANCES

- | | |
|--|--|
| CSA C68.10 - Shielded Power Cables for Commercial and Industrial Applications - 5 to 46 KV | CSA C22.2 No. 2556 & No. 0.3. - Wire and Cable Test Methods |
| CSA C68.3 - Shielded & Concentric Neutral Power Cable - 5 to 46 kV | CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating |
| CSA C22.2 No. 174 - Cables in Hazardous Locations | CSA HL - for Hazardous Locations rating |
| ICEA S-93-639 (NEMA WC 74) 5 to 46 kV - Shielded Power Cable | CSA FT4 - for Flame Retardancy rating |
| AEIC CS-8 - Qualification Testing Requirements | CSA SUN RES - for Sunlight Resistant rating |

CONSTRUCTION

- | | |
|----------------------------|---|
| CONDUCTOR: | Class B compact stranded 8000 Series Aluminum ACM |
| Conductor Shield: | Extruded semi-conducting thermosetting polymeric layer |
| INSULATION: | TRXLPE (cross-linked polyethylene), Thickness: 0.090" - nominal, insulation level: 100% - grounded system, 105°C rating |
| INSULATION SHIELD: | Extruded Semi-conducting thermosetting polymeric layer |
| COPPER TAPE SHIELD: | Helically wrapped 5 mil copper tape with 25% overlap |
| BONDING CONDUCTOR: | Class B compressed stranded bare copper - in accordance with ASTM B3 and B8 |
| FILLERS: | Non-wicking, non-hygroscopic |
| INNER JACKET: | Black PVC |
| ARMOR: | Aluminum Interlocked Armour (AIA) |
| OUTER JACKET: | Orange PVC |

AWG SIZE & STRANDS	CONDUCTOR DIAMETER (INCHES)	Diameter Over Insulation (INCHES)	BONDIND COND SIZE (AWG)	Cable Diameters Over (inches)			Net Wt. (Lbs/Mft)
				INNER JACKET	Armor	Outer Jacket	
2(7)	0.268	0.478	8	1.408	1.728	1.848	1358
1(19)	0.299	0.509	6	1.475	1.795	1.915	1495
1/0(19)	0.336	0.546	6	1.555	1.885	2.005	1697
2/0(19)	0.376	0.586	6	1.642	1.972	2.092	1854
3/0(19)	0.423	0.633	6	1.803	2.133	2.253	2166
4/0(19)	0.475	0.685	6	1.916	2.246	2.366	2399
250(37)	0.52	0.74	4	2.034	2.364	2.514	2834
350(37)	0.616	0.836	4	2.242	2.572	2.722	3332
500(37)	0.736	0.956	3	2.501	2.831	2.981	4059
750(61)	0.908	1.138	2	2.954	3.284	3.454	5495

All values are nominal and subject to correction.