



POWER KABEL INC.

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

APPLICATIONS & FEATURES:

CSA approved armoured cable for industrial and commercial medium voltage applications. FT4, -40C, HL , AG14 and 90°C rated for use in harsh Canadian environments. Rated for installation in cable trays, duct banks, direct burial, troughs, hazardous locations, continuous rigid cable supports, and is concrete encaseable

INDUSTRY COMPLIANCES

ASTM B3 Standard Specification for Soft or Annealed Copper Wire	CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
ASTM B8 Concentric-Lay-Stranded Copper Conductors	CSA HL - for Hazardous Locations rating
CSA C22.2 No. 131 Type TECK 90 Cable	CSA SUN RES - for Sunlight Resistant rating
CSA C22.2 No. 174 Cables in Hazardous Locations	CSA AG14 - Acid Gas Compliance
CSA C22.2 No. 2556 & No. 0.3 Wire and Cable Test Methods	ICEA S-96-659 (NEMA WC 71) 2001-5000 V Nonshielded Cables
IEEE 383 Flame Test (70,000 btu)	IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
FT1 Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)	

CONSTRUCTION

CONDUCTOR:	Class B stranded copper, compressed or compact, in accordance with ASTM B3 and B8
CONDUCTOR SHIELD	Extruded semi-conducting thermosetting polymeric layer
INSULATION:	TRXLPE (cross-linked polyethylene), Thickness: 0.090" (2.3 mm) - nominal, 90°C
GROUNDING CONDUCTOR:	Class B compressed or compact stranded bare copper, in accordance with ASTM B3 & B8
BINDER:	Polypropylene tape
INNER JACKET:	
ARMOR:	Black PVC, Thickness: No. 2 AWG to No. 3/0 AWG = 0.080"; No. 4/0 AWG to 500 kcmil = 0.110"; 750 kcmil to 1000 kcmil = 0.140" Aluminum Interlocked Armor
OUTER JACKET:	Orange PVC, Thickness: No. 2 AWG to 250 kcmil = 0.060"; 350 kcmil to 750 kcmil = 0.075"; 1000 kcmil = 0.090"

AWG SIZE & STRANDS	Thickness Of Insulation (mils)	Diameter Over Insulation	Ground Size (AWG)	Cable Diameters (inches)			Net Wt. (Lbs/Mft)
				Conductor	Armor	Outer Jacket	
2-7 str	90	0.49	6	0.28	1.55	1.67	1502
1-19str	90	0.53	6	0.32	1.64	1.75	1744
1/0-19str	90	0.57	6	0.36	1.73	1.87	2001
2/0-19str	90	0.62	6	0.41	1.82	1.94	2319
2/0-19str	90	0.62	4	0.41	1.82	1.979	2434
3/0-19str	90	0.67	4	0.46	1.94	2.06	2831
4/0-19str	90	0.72	4	0.51	2.12	2.24	3451
250-37str	90	0.78	4	0.56	2.24	2.36	3913
350-37str	90	0.88	3	0.66	2.47	2.62	5136
500-37str	90	1.01	3	0.79	2.74	2.89	6875
750-61str	90	1.2	2	0.97	3.21	3.38	9666
1000-61str	90	1.35	1	1.12	3.55	3.7	12247

All values are nominal and subject to correction.