

## TECK90-HL (Canadian Standards)



**Construction:** Class B stranded soft annealed bare copper conductors with XLPE insulation and bare copper ground wire assembly together with non-woven fabrics wrapped, black polyvinyl chloride(PVC) inner jacket, wrapped and covered with bare interlocked aluminum armour. Black polyvinyl chloride (PVC) outer jacket, which is water, chemical, sunlight and abrasion resistant..



**Application:** TECK90-HL Cable is suitable for use in power, control and lighting circuits at industrial and chemical plants ,pulp and paper mills, mines, power generating facilities, food processing plants and commercial centers. It is suitable for installation in wet or dry locations in troughs, trays, in direct burial, and hazardous applications. TECK90-HL is for applications up to 1000V and temperatures from -40°C to 90°C.



**Rated Voltage:** 600V 1000V



**Operating Temperature:** Max permissible continuous operating temperature of conductor shall not exceed 90°C.



**Bending Radius:** 14D, D= Actual outer diameter of cable (mm)



**Standard:** CSA C22.2 No.131 & No.174.



**Packing:** steel/wooden reel, wooden reel or steel reel.

1000V TECK90-HL

One Conductor plus Ground

Conductor size AWG	No. of conductors	Ground Wire AWG	Insulation Thickness (mm)	Inner Jacket Thickness (mm)	Approximate Outer Diameter (mm)	Approximate Weight (Kg/km)
6	1	8	1.52	0.76	19.3	476
4	1	6	1.52	0.76	20.3	610
3	1	6	1.52	0.76	21.1	670
2	1	6	1.52	0.76	21.8	759
1	1	4	2.03	1.14	24.9	1012
1/0	1	4	2.03	1.14	25.9	1131
2/0	1	4	2.03	1.14	27.9	1280
3/0	1	3	2.03	1.14	29.7	1607
4/0	1	3	2.03	1.14	31.0	1890
250	1	2	2.29	1.52	34.0	2217
350	1	1	2.29	1.52	37.1	2842
500	1	1/0	2.29	1.52	41.1	3735
750	1	2/0	2.29	1.52	46.5	5223
1000	1	2/0	2.29	1.52	50.3	6592

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Two Conductors plus Ground

Conductor size AWG	No. of conductors	Ground Wire AWG	Insulation Thickness (mm)	Inner Jacket Thickness (mm)	Approximate Outer Diameter (mm)	Approximate Weight (Kg/km)
14	2	14	1.14	1.14	19.6	326
12	2	14	1.14	1.14	20.6	380
10	2	12	1.14	1.52	22.9	433
8	2	10	1.14	1.52	26.4	583
6	2	8	1.52	1.52	30.0	827
4	2	8	1.52	2.03	33.8	1107
3	2	6	1.52	2.03	35.3	1347
2	2	6	1.52	2.03	36.8	1533
1	2	6	2.03	2.03	41.7	1838
1/0	2	6	2.03	2.03	44.0	2120
2/0	2	6	2.03	2.03	46.5	2470
3/0	2	4	2.03	2.03	49.0	2969
4/0	2	4	2.03	2.03	54.1	3497
250	2	4	2.29	2.79	59.4	4135
350	2	3	2.29	2.79	65.8	3943
500	2	3	2.29	2.79	72.6	7284
750	2	2	2.29	2.79	83.1	10226
1000	2	1	2.29	3.55	93.0	13382

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Three Conductors plus Ground

Conductor size AWG	No. of conductors	Ground Wire AWG	Insulation Thickness (mm)	Inner Jacket Thickness (mm)	Approximate Outer Diameter (mm)	Approximate Weight (Kg/km)
14	3	14	1.14	1.14	20.3	388
12	3	14	1.14	1.14	21.3	445
10	3	12	1.14	1.52	23.6	557
8	3	10	1.14	1.52	27.2	723
6	3	8	1.52	1.52	31.2	1102
4	3	8	1.52	2.03	35.1	1405
3	3	6	1.52	2.03	36.8	1728
2	3	6	1.52	2.03	38.6	1893
1	3	6	2.03	2.03	43.7	2315
1/0	3	6	2.03	2.03	46.0	2692
2/0	3	6	2.03	2.03	48.8	3200
3/0	3	4	2.03	2.03	51.8	3854
4/0	3	4	2.03	2.03	58.7	4769
250	3	4	2.29	2.79	63.2	5692
350	3	3	2.29	2.79	69.3	7388
500	3	3	2.29	2.79	77.0	9971
750	3	2	2.29	3.55	89.4	13974
1000	3	1	2.29	3.55	98.6	17939

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Four Conductors plus Ground

Conductor size AWG	No. of conductors	Ground Wire AWG	Insulation Thickness (mm)	Inner Jacket Thickness (mm)	Approximate Outer Diameter (mm)	Approximate Weight (Kg/km)
14	4	14	1.14	1.14	21.6	432
12	4	14	1.14	1.52	23.6	531
10	4	12	1.14	1.52	25.1	677
8	4	10	1.14	1.52	29.0	815
6	4	8	1.52	2.03	34.5	1341
4	4	8	1.52	2.03	37.6	1738
3	4	6	1.52	2.03	39.4	2043
2	4	6	1.52	2.03	41.9	2356
1	4	6	2.03	2.03	47.2	3024
1/0	4	6	2.03	2.03	49.8	3519
2/0	4	6	2.03	2.03	52.8	4085
3/0	4	4	2.03	2.03	56.1	5056
4/0	4	4	2.03	2.79	63.5	6205
250	4	4	2.29	2.79	68.6	7126
350	4	3	2.29	2.79	75.4	9385
500	4	3	2.29	2.79	84.3	12556
750	4	2	2.29	3.55	97.8	18478
1000	4	1	2.29	3.55	108.0	23510