



SECTION 4

TECK 90 XLPE ARMoured POWER CABLE, HL/FT4

600v to 35 kV

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TECK90 (-40°C) ARMoured POWER CABLE, HL/FT4 600 & 1000 VOLTS CROSS-LINKED POLYETHYLENE INSULATION (XLPE) (RW90) SINGLE AND MULTI-CONDUCTOR 90°C CONDUCTOR TEMPERATURE



DESCRIPTION:

This specification covers single and multi-conductor TECK90 (minus 40°C) HL armoured power cables insulated with cross-linked polyethylene (XLPE), the insulated conductors cabled with a bonding conductor, the entire assembly covered with an inner PVC jacket, then encased in interlocking armour and a protective PVC jacket overall. All cables produced under this specification are suitable for operation at 600 or 1000 volts. Type TECK90 are manufactured to meet or exceed the requirements of Canadian Standards Association (CSA) Standards. These cables can be dual rated UL and CSA upon request.

APPLICATION:

The cables are intended for use in industrial applications in power, lighting and control circuits, such as pulp and paper mills, mines, industrial plants, or generating stations. Teck cables are recommended for severe operating conditions, in wet or dry locations, installed in corrosive environments and are resistant to mechanical abuse, moisture and ozone. They may be installed in racks, trays, ladders or cable troughs, indoors or outdoors, at maximum continuous conductor temperature of 90°C, 130°C emergency overload, and 250°C short circuit condition. They are also suitable for direct burial use.

CONSTRUCTION DATA AND SPECIFICATIONS:

Conductors - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

Insulation - The insulation is cross-linked polyethylene (XLPE), extruded concentrically over the conductor to the wall thickness, as specified by CSA C22.2 No. 38 for RW90. Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CSA C22.2 No. 38 is available upon request.

Conductor Coding - Phase identification is provided by a suitable marking on each insulated conductor.

Bonding Conductor - In single conductor cable the bonding conductor is a serving of concentric uncoated bare-copper wires applied helically with a suitable lay, over the insulated conductor, per CSA C22.2 No. 131, part 4.2.3. In multi-conductor assemblies, one stranded uncoated bare-copper ground conductor will be located in one of the outer interstices, when specified, per CSA C22.2 No. 131, part 4.2.2 and Table 1. Special bonding conductor requirements are available upon request, such as 50% of phase conductor or more than the normal one bonding conductor.

Assembly - The assembly of multi-conductor cables is done by cabling together the required number of insulated conductors and bonding conductor, with a suitable left hand lay in accordance with CSA standards. Suitable fillers will be used in the interstices when required to make the cable round. A binder tape is applied over the entire assembly.

Inner Jacket - Over the taped cable assembly is extruded an inner jacket of polyvinyl chloride (PVC), suitable for temperatures down to minus 40°C per CSA C22.2 No.131, part 4.1.

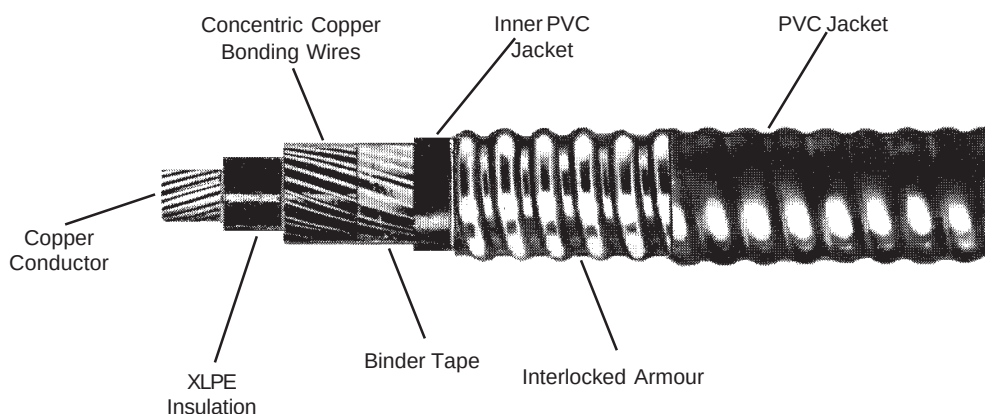
Armour - Applied over the inner PVC jacket, is a positively interlocking armour of either galvanized steel or aluminum, which meets the requirements of CSA C22.2 No. 131.

Overall Jacket - When required, a protective sunlight and ozone resistant jacket of polyvinyl chloride (PVC), suitable for installation in temperatures down to minus 40°C, is extruded over the interlocked armor following the corrugations of the armour and adhering tightly throughout. The jacket is applied to the dimensions as specified by CSA C22.2 No. 131.

Tests - The finished cable will meet all test requirements as specified by CSA C22.2 No. 131. The cables are approved for use in hazardous locations per CSA C22.2 No. 174 and pass FT-4 70,000 BTU/HR Cable Flame Test per CSA 22.2 No.0.3.



600v TECK90 SINGLE CONDUCTOR POWER CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY.



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

SINGLE CONDUCTOR 600 VOLT

Product Code Prefix 01-10-xxxx

0101	6	7	45	30	8	0.49	0.76	0.87	100	375
0102	4	7	45	30	6	0.53	0.76	0.87	135	473
0103	2	7	45	30	6	0.59	0.82	0.92	180	575
0104	1	19	55	45	4	0.72	0.90	1.00	210	766
0105	1/0	19	55	45	4	0.76	0.94	1.04	245	854
0106	2/0	19	55	45	4	0.80	0.98	1.09	285	961
0107	3/0	19	55	45	3	0.85	1.03	1.13	330	1125
0108	4/0	19	55	45	3	0.91	1.09	1.19	385	1287
0109	250	37	65	60	2	1.01	1.19	1.29	425	1536
0110	300	37	65	60	2	1.06	1.24	1.34	480	1715
0111	350	37	65	60	1	1.11	1.29	1.39	530	1947
0112	400	37	65	60	1	1.15	1.33	1.44	575	2125
0113	500	37	65	60	1/0	1.24	1.42	1.53	660	2543
0114	600	61	80	60	1/0	1.35	1.53	1.65	740	2959
0115	750	61	80	60	2/0	1.45	1.63	1.76	845	3612
0116	1000	61	80	60	2/0	1.60	1.86	1.98	1000	4489

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CSA C22.2 No. 131, Table 1.

**Based on cables in free air run, per CEC Part 1, Table 1. For other installations refer to the CEC.

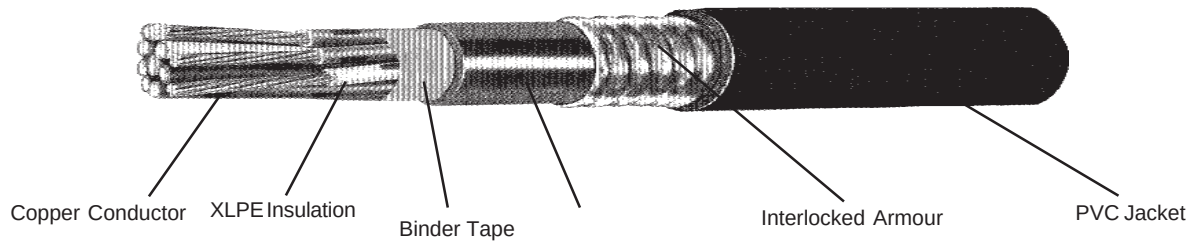
+Weights based on aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



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600v TECK 90 #14 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE



Product Code	No. of Conductors	#14AWG - 7 Strand					Approximate Net Weight* LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-		Insulation: 30 Mils Bonding Conductor: 14AWG					

MULTI-CONDUCTOR 600 VOLT

Product Code Prefix 01-10-xxxx

0201	2	45	0.37	0.57	0.68	205
0202	3	45	0.39	0.59	0.70	225
0203	4	45	0.44	0.64	0.75	260
0204	5	45	0.48	0.68	0.79	290
0205	6	45	0.52	0.72	0.83	320
0206	7	45	0.53	0.73	0.84	340
0207	8	60	0.60	0.80	0.91	395
0208	9	60	0.64	0.84	0.94	425
0209	10	60	0.68	0.88	0.98	460
0210	11	60	0.68	0.88	0.99	475
0211	12	60	0.71	0.91	1.01	495
0212	13	60	0.72	0.92	1.02	520
0213	14	60	0.76	0.98	1.08	590
0214	15	60	0.76	0.98	1.09	610
0215	16	60	0.79	1.00	1.11	630
0216	17	60	0.81	1.02	1.13	660
0217	18	60	0.83	1.04	1.15	690
0218	19	60	0.84	1.05	1.16	710
0219	20	60	0.85	1.07	1.17	730
0220	25	80	0.99	1.21	1.32	900
0221	30	80	1.07	1.29	1.40	1040
0222	40	80	1.19	1.41	1.52	1260
0223	50	80	1.30	1.52	1.63	1460
0224	60	80	1.42	1.64	1.75	1720
0225	70	80	1.50	1.75	1.88	1980
0226	80	80	1.59	1.84	1.97	2200
0227	90	80	1.68	1.90	2.02	2450
0228	100	110	1.82	2.06	2.20	2800

*Weights based on aluminum armour assembly.

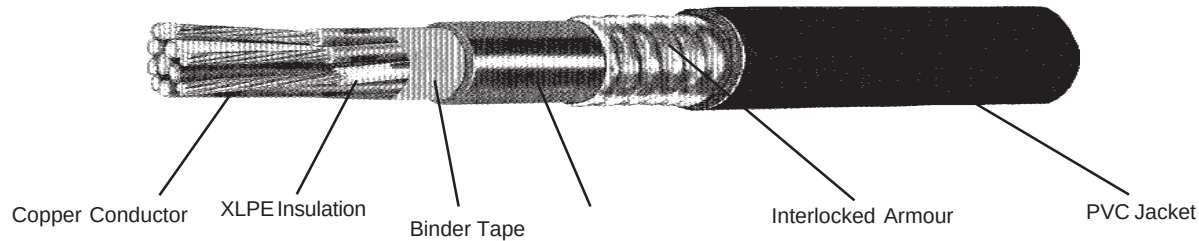
Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



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600v TECK 90 #12 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE



Product Code	No. of Conductors	#12AWG - 7 Strand					Approximate Net Weight* LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-		Insulation: 30 Mils Bonding Conductor: 14AWG					

MULTI-CONDUCTOR 600 VOLT

Product Code Prefix 01-10-xxxx

0301	2	45	0.41	0.61	0.71	230
0302	3	45	0.43	0.63	0.74	265
0303	4	45	0.48	0.67	0.79	305
0304	5	45	0.53	0.73	0.84	350
0305	6	60	0.61	0.81	0.91	415
0306	7	60	0.62	0.82	0.92	440
0307	8	60	0.67	0.87	0.97	485
0308	9	60	0.70	0.90	1.01	520
0309	10	60	0.75	0.97	1.08	600
0310	11	60	0.76	0.98	1.09	630
0311	12	60	0.79	1.00	1.11	670
0312	13	60	0.80	1.02	1.13	700
0313	14	60	0.84	1.05	1.16	740
0314	15	60	0.85	1.07	1.17	770
0315	16	60	0.88	1.09	1.20	800
0316	17	80	0.94	1.16	1.26	890
0317	18	80	0.96	1.18	1.29	920
0318	19	80	0.97	1.19	1.30	950
0319	20	80	0.99	1.21	1.31	980
0320	25	80	1.10	1.32	1.43	1160
0321	30	80	1.19	1.41	1.51	1340
0322	40	80	1.33	1.55	1.66	1660
0323	50	80	1.46	1.68	1.79	2000
0324	60	80	1.59	1.84	1.97	2400
0325	70	80	1.68	1.93	2.06	2700
0326	80	110	1.84	2.08	2.22	3150
0327	90	110	1.95	2.20	2.32	3500
0328	100	110	2.04	2.28	2.44	3850

*Weights based on aluminum armour assembly.

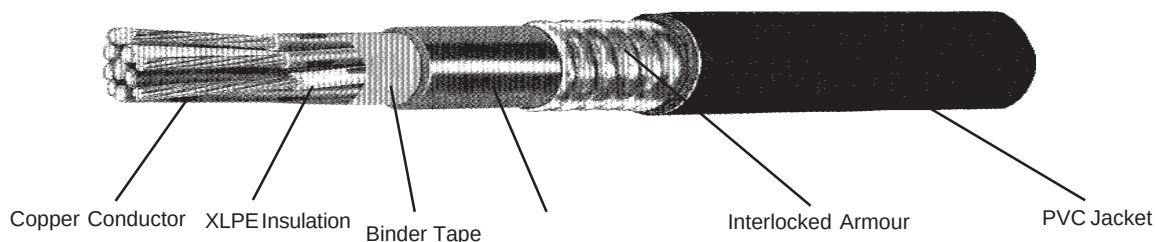
Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



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600v TECK 90 #10 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE



Product Code	No. of Conductors	#10AWG - 7 Strand					Approximate Net Weight* LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
			Insulation: 30 Mils Bonding Conductor: 12AWG				
01-10-							

MULTI-CONDUCTOR 600 VOLT Product Code Prefix 01-10-xxxx

0401	2	45	0.46	0.66	0.76	280
0402	3	45	0.48	0.69	0.80	330
0403	4	45	0.55	0.75	0.86	390
0404	5	60	0.63	0.83	0.93	465
0405	6	60	0.68	0.88	0.99	525
0406	7	60	0.69	0.89	1.00	570
0407	8	60	0.75	0.97	1.08	660
0408	9	60	0.79	1.01	1.12	715
0409	10	60	0.85	1.06	1.17	775
0410	11	60	0.86	1.08	1.18	820
0411	12	80	0.93	1.15	1.25	915
0412	13	80	0.94	1.16	1.27	960
0413	14	80	0.99	1.21	1.31	1020
0414	15	80	1.00	1.22	1.32	1060
0415	16	80	1.03	1.25	1.35	1120
0416	17	80	1.05	1.27	1.38	1180
0417	18	80	1.08	1.30	1.41	1220
0418	19	80	1.09	1.31	1.42	1260
0419	20	80	1.11	1.33	1.44	1320
0420	25	80	1.25	1.47	1.58	1560
0421	30	80	1.35	1.57	1.68	1840
0422	40	80	1.52	1.77	1.90	2350
0423	50	80	1.65	1.90	2.02	2800
0424	60	-	-	-	-	-
0425	70	-	-	-	-	-
0426	80	-	-	-	-	-
0427	90	-	-	-	-	-
0428	100	-	-	-	-	-

*Weights based on aluminum armour assembly.

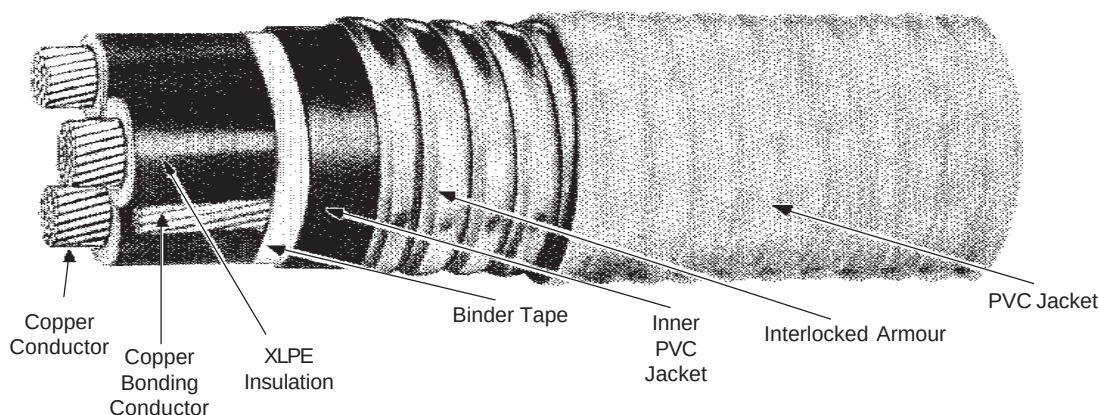
Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



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600v TECK 90 MULTI-CONDUCTOR POWER CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY

Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size AWG* Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		

THREE CONDUCTOR 600 VOLT

Product Code Prefix 01-10-xxxx

0501	14	7	30	45	14	0.40	0.63	0.74	15	225
0502	12	7	30	45	14	0.44	0.69	0.80	20	265
0503	10	7	30	45	12	0.49	0.76	0.87	30	330
0504	8	7	45	60	10	0.65	0.88	0.98	45	475
0505	6	7	45	60	8	0.73	0.94	1.05	65	670
0506	4	7	45	80	8	0.87	1.05	1.16	85	890
0507	2	7	45	80	6	1.00	1.18	1.28	120	1220
0508	1	19	55	80	6	1.12	1.30	1.41	140	1490
0509	1/0	19	55	80	6	1.21	1.39	1.50	155	1710
0510	2/0	19	55	80	6	1.30	1.48	1.59	185	2050
0511	3/0	19	55	80	4	1.41	1.59	1.72	210	2470
0512	4/0	19	55	80	4	1.53	1.79	1.92	235	3000
0513	250	37	65	110	4	1.74	2.00	2.13	265	3700
0514	300	37	65	110	4	1.86	2.12	2.24	295	4200
0515	350	37	65	110	3	1.96	2.22	2.35	325	4700
0516	400	37	65	110	3	2.06	2.32	2.45	345	5400
0517	500	37	65	110	2	2.25	2.51	2.67	395	6400
0518	600	61	80	110	2	2.47	2.73	2.89	455	7500
0519	750	61	80	110	2	2.69	2.95	3.11	500	9000
0520	1000	61	80	140	1	3.08	3.34	3.52	585	11800

FOUR CONDUCTOR 600 VOLT

Product Code Prefix 01-10-xxxx

0521	14	7	30	45	14	0.43	0.69	0.80	15	260
0522	12	7	30	45	14	0.48	0.69	0.80	20	305
0523	10	7	30	60	12	0.57	0.82	0.92	30	390
0524	8	7	45	60	10	0.71	0.94	1.05	45	560
0525	6	7	45	60	8	0.80	0.98	1.08	65	790
0526	4	7	45	80	8	0.95	1.13	1.24	85	1080
0527	2	7	45	80	6	1.09	1.27	1.38	120	1470
0528	1	19	55	80	6	1.24	1.42	1.52	140	1830
0529	1/0	19	55	80	6	1.33	1.51	1.64	155	2170
0530	2/0	19	55	80	6	1.44	1.62	1.74	185	2590
0531	3/0	19	55	80	4	1.56	1.82	1.95	210	3150
0532	4/0	19	55	110	4	1.76	2.02	2.14	235	3900
0533	250	37	65	110	4	1.92	2.18	2.31	265	4600
0534	300	37	65	110	4	2.05	2.31	2.44	295	5300
0535	350	37	65	110	3	2.17	2.43	2.56	325	6000
0536	400	37	65	110	3	2.28	2.54	2.70	345	6700
0537	500	37	65	110	2	2.49	2.75	2.91	395	8000
0538	600	61	80	140	2	2.80	3.06	3.24	455	9300
0539	750	61	80	140	2	3.05	3.31	3.49	500	11700
0540	1000	61	80	140	1	3.41	3.67	3.85	585	14900

Note: *One uninsulated copper bonding conductor sized in accordance with CSA C22.2 No. 131, Table 1.

**Based on cables in free air run, per CEC Part 1, Table 2. For four conductor cable the fourth conductor is a neutral. Otherwise the maximum ampacity is 80% of the table figures. For other installations refer to the CEC.

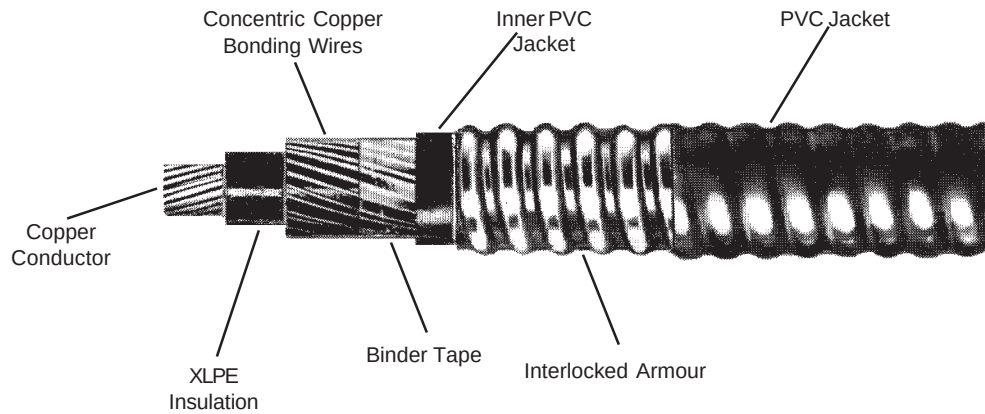
+Weights based on aluminum armor assembly.

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

1 kV TECK90 SINGLE CONDUCTOR POWER CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY.



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

SINGLE CONDUCTOR 1000 VOLT

Product Code Prefix 01-10-xxxx

0601	6	7	60	30	8	0.52	0.76	0.87	100	387
0602	4	7	60	30	6	0.55	0.82	0.92	135	488
0603	2	7	60	30	6	0.62	0.88	0.98	180	593
0604	1	19	80	45	4	0.77	0.95	1.06	210	790
0605	1/0	19	80	45	4	0.81	0.99	1.10	245	880
0606	2/0	19	80	45	4	0.85	1.03	1.14	285	991
0607	3/0	19	80	45	3	0.91	1.09	1.19	330	1160
0608	4/0	19	80	45	3	0.96	1.14	1.25	385	1327
0609	250	37	90	60	2	1.06	1.24	1.35	425	1583
0610	300	37	90	60	2	1.11	1.29	1.40	480	1768
0611	350	37	90	60	1	1.16	1.34	1.45	530	2007
0612	400	37	90	60	1	1.21	1.39	1.49	575	2191
0613	500	37	90	60	1/0	1.30	1.48	1.58	660	2622
0614	600	61	90	60	1/0	1.37	1.55	1.68	740	3051
0615	750	61	90	60	2/0	1.47	1.65	1.78	845	3724
0616	1000	61	90	60	2/0	1.62	1.88	2.01	1000	4628

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CSA C22.2 No. 131, Table 1.

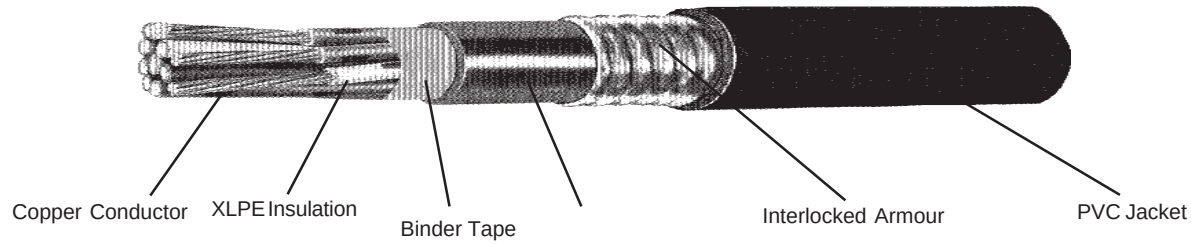
**Based on cables in free air run, per CEC Part 1, Table 1. For other installations refer to the CEC.

+Weights based on aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



1 kV TECK 90 #14 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY.



Product Code	No. of Conductors	#14AWG - 7 Strand					Approximate Net Weight* LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-		Insulation: 45 Mils Bonding Conductor: 14AWG					

MULTI-CONDUCTOR 1000VOLT

Product Code Prefix 01-10-xxxx

0701	2	45	0.41	0.63	0.75	211
0702	3	45	0.43	0.65	0.76	232
0703	4	45	0.49	0.70	0.83	267
0704	5	45	0.54	0.75	0.87	299
0705	6	45	0.57	0.79	0.91	329
0706	7	45	0.58	0.80	0.92	350
0707	8	60	0.66	0.88	1.00	407
0708	9	60	0.70	0.92	1.03	438
0709	10	60	0.75	0.97	1.08	474
0710	11	60	0.75	0.98	1.08	489
0711	12	60	0.78	1.00	1.11	510
0712	13	60	0.79	1.01	1.12	536
0713	14	60	0.84	1.08	1.19	611
0714	15	60	0.86	1.08	1.20	628
0715	16	60	0.88	1.10	1.22	649
0716	17	60	0.89	1.12	1.24	679
0717	18	60	0.91	1.14	1.27	711
0718	19	60	0.92	1.16	1.28	732
0719	20	60	0.94	1.18	1.29	752
0720	25	80	1.09	1.33	1.45	927
0721	30	80	1.17	1.42	1.54	1071
0722	40	80	1.30	1.55	1.67	1298
0723	50	80	1.43	1.67	1.79	1504
0724	60	80	1.56	1.80	1.93	1772
0725	70	80	1.65	1.93	2.07	2039
0726	80	80	1.75	2.02	2.17	2266
0727	90	80	1.83	2.09	2.22	2525
0728	100	110	2.00	2.27	2.42	2884

*Weights based on aluminum armour assembly.

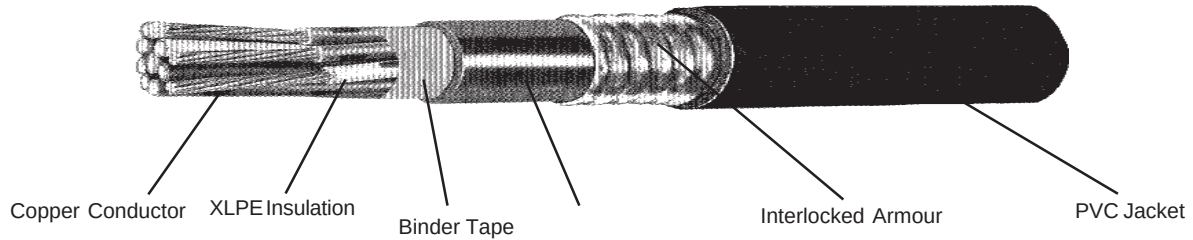
Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

1 kV TECK 90 #12 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY.



Product Code	No. of Conductors	#12AWG - 7 Strand					Approximate Net Weight** LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
			Insulation: 45 Mils Bonding Conductor: 14AWG				
01-10-							

MULTI-CONDUCTOR 1000VOLT

Product Code Prefix 01-10-xxxx

0801	2	45	0.45	0.67	0.73	237
0802	3	45	0.47	0.69	0.81	273
0803	4	45	0.53	0.74	0.87	314
0804	5	45	0.58	0.80	0.92	360
0805	6	60	0.67	0.88	1.00	427
0806	7	60	0.68	0.90	1.01	453
0807	8	60	0.74	0.96	1.07	500
0808	9	60	0.77	0.99	1.11	537
0809	10	60	0.83	1.07	1.19	618
0810	11	60	0.84	1.08	1.20	648
0811	12	60	0.87	1.10	1.22	690
0812	13	60	0.88	1.12	1.24	721
0813	14	60	0.92	1.16	1.28	762
0814	15	60	0.94	1.18	1.29	793
0815	16	60	0.97	1.20	1.32	824
0816	17	80	1.03	1.28	1.39	916
0817	18	80	1.06	1.30	1.42	948
0818	19	80	1.07	1.31	1.43	978
0819	20	80	1.09	1.33	1.44	1009
0820	25	80	1.21	1.45	1.57	1195
0821	30	80	1.31	1.55	1.66	1380
0822	40	80	1.47	1.71	1.83	1710
0823	50	80	1.61	1.85	1.97	2060
0824	60	80	1.75	2.02	2.17	2472
0825	70	80	1.85	2.12	2.27	2781
0826	80	110	2.02	2.29	2.44	3245
0827	90	110	2.15	2.42	2.55	3605
0828	100	110	2.24	2.51	2.68	3965

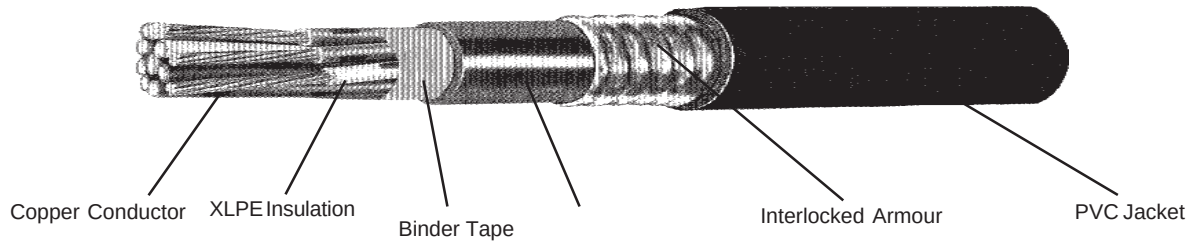
*Weights based on aluminum armour assembly.

Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



1 kV TECK 90 #10 AWG MULTI-CONDUCTOR CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY



Product Code	No. of Conductors	#10AWG - 7 Strand					Approximate Net Weight LBS/ KFT
		Inner PVC Jacket in Mils	Approximate O.D. in Inches				
			Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-		Insulation: 45 Mils Bonding Conductor: 12AWG					

MULTI-CONDUCTOR 1000 VOLT

Product Code Prefix 01-10-xxxx

0901	2	45	0.51	0.73	0.84	288
0902	3	45	0.53	0.76	0.88	340
0903	4	45	0.61	0.83	0.95	402
0904	5	60	0.69	0.91	1.02	477
0905	6	60	0.75	0.97	1.09	541
0906	7	60	0.76	0.98	1.10	587
0907	8	60	0.83	1.07	1.19	680
0908	9	60	0.87	1.11	1.23	736
0909	10	60	0.94	1.17	1.29	798
0910	11	60	0.95	1.19	1.30	845
0911	12	80	1.02	1.27	1.38	942
0912	13	80	1.03	1.28	1.40	989
0913	14	80	1.09	1.33	1.44	1050
0914	15	80	1.10	1.34	1.45	1092
0915	16	80	1.13	1.38	1.49	1154
0916	17	80	1.16	1.40	1.52	1215
0917	18	80	1.19	1.43	1.55	1255
0918	19	80	1.20	1.44	1.56	1298
0919	20	80	1.22	1.46	1.58	1360
0920	25	80	1.38	1.62	1.74	1607
0921	30	80	1.49	1.73	1.85	1895
0922	40	80	1.67	1.95	2.09	2420
0923	50	80	1.82	2.09	2.22	2885
0924	60	-	-	-	-	-
0925	70	-	-	-	-	-
0926	80	-	-	-	-	-
0927	90	-	-	-	-	-
0928	100	-	-	-	-	-

*Weights based on aluminum armour assembly.

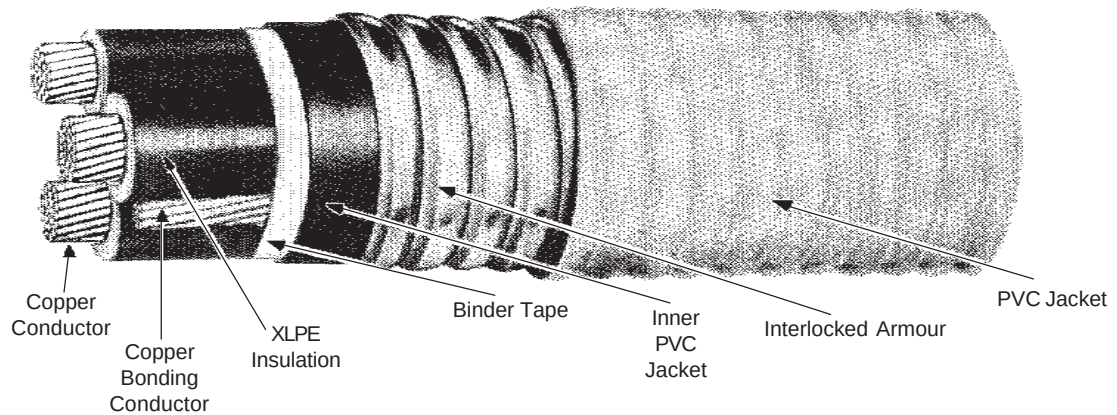
Ampacity: Refer to CEC

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

1 kV TECK 90 MULTIPLE CONDUCTOR POWER CABLE, XLPE, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size AWG* Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		

THREE CONDUCTOR 1000 VOLT

Product Code Prefix 01-10-xxxx

1001	14	7	45	45	14	0.46	0.69	0.80	15	211
1002	12	7	45	45	14	0.50	0.76	0.87	20	273
1003	10	7	45	45	12	0.58	0.82	0.92	30	340
1004	8	7	45	60	10	0.71	0.94	1.05	45	375
1005	6	7	60	60	8	0.79	0.97	1.08	65	700
1006	4	7	60	80	8	0.94	1.12	1.22	85	940
1007	2	7	60	80	6	1.06	1.24	1.35	120	1280
1008	1	19	80	80	6	1.23	1.41	1.52	140	1560
1009	1/0	19	80	80	6	1.32	1.50	1.63	155	1800
1010	2/0	19	80	80	6	1.41	1.59	1.72	185	2150
1011	3/0	19	80	80	4	1.52	1.78	1.91	210	2600
1012	4/0	19	80	80	4	1.64	1.90	2.03	235	3150
1013	250	37	90	110	4	1.85	2.11	2.24	265	3800
1014	300	37	90	110	4	1.97	2.23	2.35	295	4350
1015	350	37	90	110	3	2.07	2.33	2.46	325	4950
1016	400	37	90	110	3	2.17	2.43	2.56	345	5600
1017	500	37	90	110	2	2.36	2.62	2.78	395	6700
1018	600	61	90	110	2	2.52	2.78	2.94	455	7800
1019	750	61	90	110	2	2.80	3.06	3.24	500	9400
1020	1000	61	90	140	1	3.12	3.38	3.56	585	12400

FOUR CONDUCTOR 1000 VOLT

Product Code Prefix 01-10-xxxx

1021	14	7	45	45	14	0.50	0.76	0.86	15	267
1022	12	7	45	60	14	0.58	0.82	0.92	20	314
1023	10	7	45	60	12	0.64	0.88	0.98	30	402
1024	8	7	60	60	10	0.78	0.96	1.07	45	560
1025	6	7	60	80	8	0.91	1.09	1.20	65	840
1026	4	7	60	80	8	1.03	1.21	1.31	85	1140
1027	2	7	60	80	6	1.17	1.35	1.45	120	1560
1028	1	19	80	80	6	1.36	1.54	1.67	140	1940
1029	1/0	19	80	80	6	1.46	1.64	1.76	155	2300
1030	2/0	19	80	80	6	1.56	1.82	1.95	185	2750
1031	3/0	19	80	110	4	1.75	2.01	2.13	210	3350
1032	4/0	19	80	110	4	1.88	2.14	2.27	235	4150
1033	250	37	90	110	4	2.04	2.30	2.43	265	4800
1034	300	37	90	110	4	2.17	2.43	2.56	295	5600
1035	350	37	90	110	3	2.29	2.55	2.71	325	6400
1036	400	37	90	110	3	2.40	2.66	2.82	345	7100
1037	500	37	90	110	2	2.61	2.87	3.03	395	8500
1038	600	61	90	140	2	2.85	3.11	3.29	455	9900
1039	750	61	90	140	2	3.10	3.39	3.54	500	12400
1040	1000	61	90	140	1	3.46	3.72	3.90	585	15800

Note: *One uninsulated copper bonding conductor sized in accordance with CSA C22.2 No. 131, Table 1.

**Based on cables in free air run, per CEC Part 1, Table 2. For four conductor cable the fourth conductor is a neutral. Otherwise the maximum ampacity is 80% of the table figures. For other installations refer to the CEC.

+Weights based on aluminum armor assembly.

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

TECK 90 (-40°C) ARMoured POWER CABLE, HL/FT4 5000 VOLT, NON-SHIELDED CROSS-LINKED POLYETHYLENE INSULATION (XLPE) (RW90) SINGLE AND MULTI-CONDUCTOR 90°C CONDUCTOR TEMPERATURE



DESCRIPTION:

This specification covers single and multi-conductor Teck 90 (minus 40°C) HL armored power cables insulated with cross-linked polyethylene (XLPE), the insulated conductors cabled with bonding conductor, the entire assembly covered with an inner PVC jacket, then encased in interlocked armor and a protective PVC jacket overall. All cables produced under this specification are suitable for a maximum of 5000 volt operation. Type Teck 90 cables meet the requirements of the Canadian Electrical Code (CEC), Part 1 and conform to the Canadian Standards Association (CSA) Standards. These cables can be dual rated UL and CSA upon request.

APPLICATION:

The cables are intended for use in industrial applications in power, lighting and control circuits, such as pulp and paper mills, mines, industrial plants, or generating stations. Teck cables are recommended for severe operating conditions, in wet or dry locations, installed in corrosive environments and are resistant to mechanical abuse, moisture and ozone. They may be installed in racks, trays, ladders or cable troughs, indoors or outdoors, at maximum continuous conductor temperature of 90°C, 130°C emergency overload, and 250°C short circuit condition. They are also suitable for direct burial use.

CONSTRUCTION DATA AND SPECIFICATIONS:

Conductors - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

Conductor Shield - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of C22.2 No. 131 of the CSA.

Insulation - The insulation is cross-linked polyethylene (XLPE), extruded concentrically over the conductor to the wall thickness, as specified by CSA C22.2 No. 38 for RW90 cables. Ethylene-propylene rubber (EPR) insulation conforming to ICEA S-68-516 (NEMA WC-8) and CSA C22.2 No. 38 is available upon request.

Conductor Coding - Phase identification is provided by a suitable marking on each insulated conductor.

Bonding Conductor - In single conductor cable the bonding conductor is a serving of concentric uncoated bare-copper wires applied helically with a suitable lay, over the insulated conductor, per CSA C22.2 No. 131, part 4.2.3. In multi-conductor assemblies, one stranded uncoated bare-copper bonding conductor will be located in one of the outer interstices, when specified per CSA C22.2 No. 131, part 4.2.2 and Table 1. Special bonding wire requirements are available upon request, such as 50% of phase conductor or more than the normal one bonding conductor.

Assembly - The assembly of multi-conductor cables is done by cabling together the required number of insulated conductors and bonding conductor, with a suitable left hand lay in accordance with CSA standards. Suitable fillers will be used in the interstices when required to make the cable round. A binder tape is applied over the entire assembly.

Inner Jacket - Over the taped cable assembly is extruded an inner jacket of polyvinyl chloride (PVC), suitable for temperatures down to minus 40°C per CSA C22.2 No. 131, part 4.1.

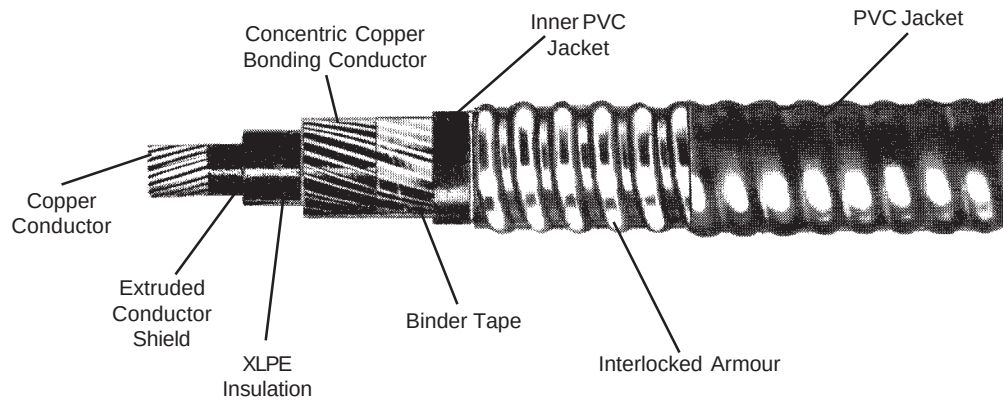
Armour - Applied over the inner PVC jacket, is a positively interlocking armour of either galvanized steel or aluminum, which meets the requirements of UL 1072, ICEA S-66-524, NEMA WC-7 Standards and CSA C22.2 No. 131.

Overall Jacket - When required, a protective sunlight and ozone resistant jacket of polyvinyl chloride (PVC), suitable for installation in temperatures down to minus 40°C, is extruded over the interlocked armor following the corrugations of the armor and adhering tightly throughout. The jacket is applied to the dimensions as specified by CSA C22.2 No. 131.

Tests - The finished cable will meet all test requirements as specified by CSA C22.2 No. 131. The cables are approved for use in hazardous locations per CSA C22.2 No. 174 and pass FT-4 70,000 BTU/HR Cable Flame Test per CSA 22.2 No. 0.3.



5kV TECK 90 SINGLE CONDUCTOR CABLE, XLPE, NON-SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

SINGLE CONDUCTOR 5kV, NON-SHIELDED

Product Code Prefix 01-10-xxxx

1101	6	7	90	30	8	0.60	0.82	0.92	100	490
1102	4	7	90	45	6	0.68	0.86	0.99	135	605
1103	2	7	90	45	6	0.74	0.92	1.02	180	736
1104	1	19	90	45	4	0.81	0.99	1.10	210	859
1105	1/0	19	90	45	4	0.85	1.03	1.14	245	953
1106	2/0	19	90	45	4	0.89	1.07	1.18	285	1067
1107	3/0	19	90	45	3	0.94	1.12	1.23	330	1291
1108	4/0	19	90	60	3	1.03	1.21	1.32	385	1466
1109	250	37	90	60	2	1.09	1.27	1.38	425	1651
1110	300	37	90	60	2	1.14	1.32	1.43	480	1843
1111	350	37	90	60	1	1.19	1.37	1.48	530	2085
1112	400	37	90	60	1	1.24	1.42	1.52	575	2271
1113	500	37	90	60	1/0	1.33	1.51	1.63	660	2733
1114	600	61	90	60	1/0	1.41	1.59	1.72	740	3100
1115	750	61	90	60	2/0	1.51	1.77	1.90	845	3782
1116	1000	61	90	60	2/0	1.66	1.92	2.05	1000	4788

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CSA C22.2 No. 131, Table 1.

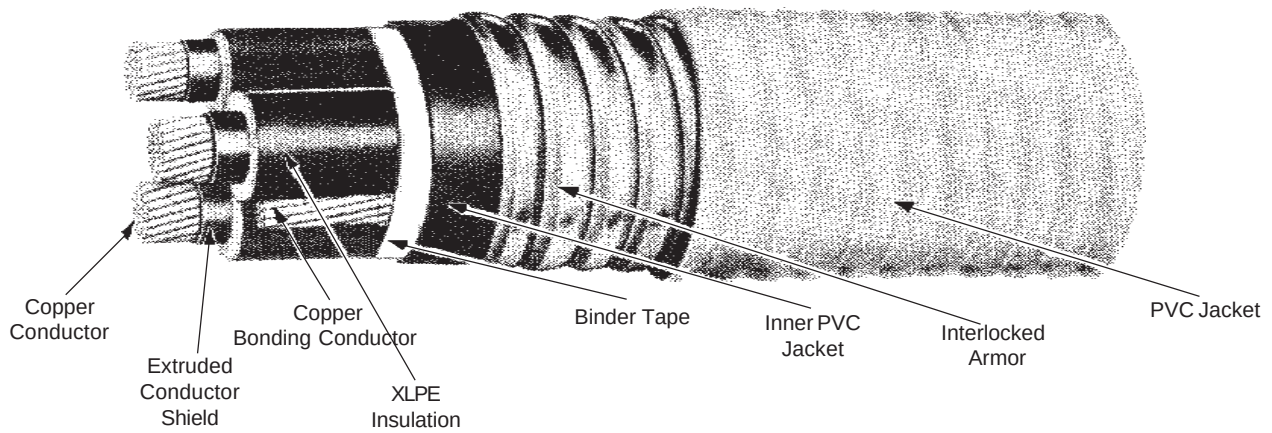
**Based on cables in free air run, per CEC Part 1, Table 1. For other installations refer to the CEC.

+Weights based on aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



5 kV TECK 90 THREE CONDUCTOR CABLE, XLPE, NON-SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

THREE CONDUCTOR 5KV, NON-SHIELDED

Product Code Prefix 01-10-xxxx

1201	8	7	90	80	10	0.96	1.14	1.25	45	730
1202	6	7	90	80	8	1.04	1.22	1.33	65	890
1203	4	7	90	80	8	1.14	1.32	1.43	85	1100
1204	2	7	90	80	6	1.27	1.45	1.55	120	1440
1205	1	19	90	80	6	1.35	1.53	1.66	140	1720
1206	1/0	19	90	80	6	1.44	1.62	1.74	155	1980
1207	2/0	19	90	80	6	1.53	1.79	1.92	185	2400
1208	3/0	19	90	80	4	1.64	1.90	2.03	210	2850
1209	4/0	19	90	110	4	1.82	2.08	2.21	235	3500
1210	250	37	90	110	4	1.96	2.22	2.34	265	3950
1211	300	37	90	110	4	2.07	2.33	2.46	295	4500
1212	350	37	90	110	3	2.18	2.44	2.56	325	5200
1213	400	37	90	110	3	2.27	2.53	2.69	345	5800
1214	500	37	90	110	2	2.46	2.72	2.88	395	6900
1215	600	61	90	110	2	2.64	2.90	3.06	455	8000
1216	750	61	90	140	2	2.93	3.19	3.36	500	9600
1217	1000	61	90	140	1	3.25	3.51	3.68	585	12600

Note: *One uninsulated copper ground conductor sized in accordance with CSA C22.2 No. 131, Table 1.

**Based on cables in free air run, per CEC Part 1, Table 2. For other installations refer to the CEC.

+Weight based on aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

TECK ARMoured POWER CABLE, HL/FT4 5000 TO 35000 VOLT, SHIELDED ETHYLENE PROPYLENE RUBBER INSULATION (EPR) SINGLE AND MULTI-CONDUCTOR 90°C CONDUCTOR TEMPERATURE



DESCRIPTION:

This specification covers single and multi-conductor Teck HL armoured power cables insulated with ethylene propylene rubber (EPR), the insulated, shielded conductors cabled with bonding conductor, the entire assembly covered with an inner PVC jacket, then encased in interlocked armour and a protective PVC jacket overall. Teck cables meet the requirements of the Canadian Electrical Code (CEC), Part 1 and conform to the Canadian Standards Association (CSA) Standards. These cables also comply in all respects with ICEA and NEMA Standards and can be dual rated UL & CSA upon request.

APPLICATION:

The cables are intended for use in industrial applications in power, lighting and control circuits, such as pulp and paper mills, mines, industrial plants, or generating stations. Teck cables are recommended for severe operating conditions, in wet or dry locations, installed in corrosive environments and are resistant to mechanical abuse, moisture and ozone. They may be installed in racks, trays, ladders or cable troughs, indoors or outdoors, at maximum continuous conductor temperature of 90°C 130°C emergency overload, and 130°C short circuit condition. They are also listed for direct burial use.

CONSTRUCTION DATA AND SPECIFICATIONS:

Conductors - The conductors consist of uncoated soft copper meeting the requirements of ASTM B-3. Unless otherwise specified, Class B stranding will be supplied. The stranding meets the requirements of ASTM B-8 for copper conductors.

Conductor Shield - The conductor shielding consists of an extruded semi-conducting layer meeting the requirements of CAN/CSA C68.3-M92 and ICEA S-68-516.

Insulation - The insulation is ethylene propylene rubber (EPR), extruded concentrically over the conductor to the wall thickness, as specified by CAN/CSA C68.3-M92, ICEA S-68-516 (NEMA WC-8).

Insulation Shielding - Insulation shielding consists of a semi-conducting extruded compound or semi-conducting tape and a .003" or .005" thickness of an uncoated lapped copper metallic tape or a serving of uncoated copper wires meeting the requirements of CAN/CSA C68.3-M92, ICEA

S-68-516 and NEMA WC-7 Standards. For single conductor cable, the bonding conductor shall be considered to meet the requirements of a metallic shield.

Conductor Coding - Phase identification is provided by a suitable marking on each insulated conductor.

Bonding Conductor - In single conductor cable the bonding conductor is a serving of concentric uncoated bare-copper wires applied helically with a suitable lay, over the insulated conductor, per CAN/CSA C68.3-M92. In multi-conductor assemblies, one stranded uncoated bare-copper bonding conductor will be located in one of the outer interstices, when specified per CAN/CSA C68.3-M92. Special bonding conductor requirements are available upon request, such as 50% of phase conductor or more than the normal one bonding conductor.

Assembly - The assembly of multi-conductor cables is done by cabling together the required number of insulated, shielded conductors and bonding conductor, with a suitable left hand lay in accordance with CSA and ICEA-NEMA Standards. Suitable fillers will be used in the interstices when required to make the cable round. A binder tape is applied over the entire assembly.

Inner Jacket - Over the taped cable assembly is extruded an inner jacket of polyvinyl chloride (PVC), per CAN/CSA C68.3 No. 68-M92.

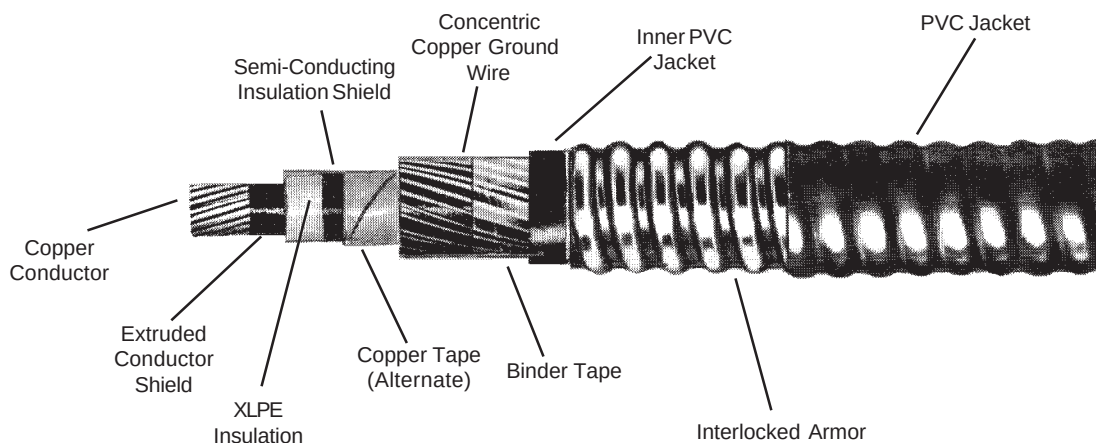
Armour - Applied over the inner PVC jacket, is a positively interlocking armour of either galvanized steel or aluminum, which meets the requirements of CAN/CSA C68.3-M92, ICEA S-68-516, NEMA WC-8 Standards.

Overall Jacket - When required, a protective sunlight and ozone resistant jacket of polyvinyl chloride (PVC), suitable for installation in temperatures down to minus 40°C, is extruded over the interlocked armour following the corrugations of the armour and adhering tightly throughout. The jacket is applied to the dimensions as specified by CAN/CSA C68.3-M92, ICEA S-68-516 and NEMA WC-8.

Tests - The finished cable will meet all test requirements as specified by CAN/CSA C68.3-M92 and ICEA S-68-516, NEMA WC-8. The cables are approved for use in hazardous locations per CSA C22.2 No. 174 and pass FT-4 70,000 BTU/HR Cable Flame Test per CSA 22.2 No.0.3.



5 kV TECK SINGLE CONDUCTOR POWER CABLE, XLPE, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 30°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

SINGLE CONDUCTOR 5 kV, SHIELDED, 100% INSULATION LEVEL

Product Code Prefix 01-10-xxxx

1301	6	7	90	60	8	0.77	0.95	1.05	100	525
1302	4	7	90	60	6	0.82	1.00	1.10	135	635
1303	2	7	90	60	6	0.88	1.06	1.16	180	766
1304	1	19	90	60	4	0.96	1.14	1.24	210	889
1305	1/0	19	90	60	4	1.00	1.18	1.28	245	983
1306	2/0	19	90	80	4	1.09	1.27	1.37	285	1092
1307	3/0	19	90	80	3	1.14	1.32	1.42	330	1301
1308	4/0	19	90	80	3	1.20	1.38	1.48	385	1480
1309	250	37	90	80	2	1.26	1.44	1.55	425	1666
1310	300	37	90	80	2	1.32	1.50	1.60	480	1868
1311	350	37	90	80	1	1.37	1.55	1.65	530	2125
1312	400	37	90	80	1	1.42	1.60	1.70	575	2326
1313	500	37	90	80	1/0	1.53	1.79	1.90	660	2783
1314	600	61	90	80	1/0	1.62	1.88	2.00	740	3160
1315	750	61	90	80	2/0	1.72	1.99	2.11	845	3797
1316	1000	61	90	80	2/0	1.88	2.14	2.27	1000	4918

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

**Based on cables in free air run, per CEC Part 1, Table 1. For other installations refer to the CEC.

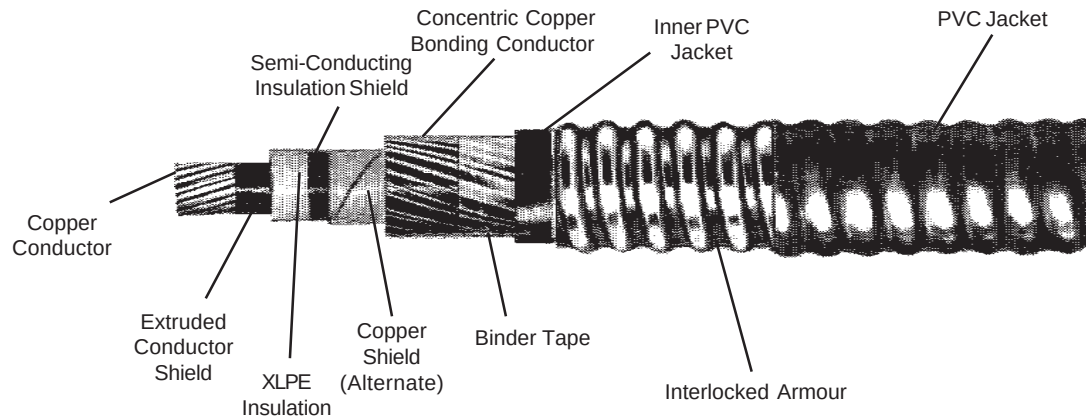
+Weights based on aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



United Wire & Cable

15 kV TECK SINGLE CONDUCTOR POWER CABLE, XLPE, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 40°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		
01-10-										

SINGLE CONDUCTOR 15 kV, SHIELDED, 100% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1401	2	7	175	80	6	1.29	1.20	1.57	195	1056
1402	1	19	175	80	4	1.36	1.24	1.65	225	1187
1403	1/0	19	175	80	4	1.40	1.27	1.69	259	1292
1404	2/0	19	175	80	4	1.45	1.31	1.73	298	1416
1405	3/0	19	175	80	3	1.52	1.36	1.89	343	1600
1406	4/0	19	175	80	3	1.58	1.41	1.97	397	1819
1407	250	37	175	80	2	1.65	1.50	2.03	440	2011
1408	300	37	175	80	2	1.70	1.55	2.09	491	2246
1409	350	37	175	80	1	1.76	1.61	2.14	543	2562
1410	400	37	175	80	1	1.80	1.65	2.19	588	2757
1411	500	37	175	80	1/0	1.89	1.80	2.28	678	3206
1412	600	61	175	80	1/0	2.04	1.89	2.43	758	3601
1413	750	61	175	80	2/0	2.17	2.05	2.56	872	4375
1414	1000	61	175	110	2/0	2.33	2.22	2.75	1040	5408

SINGLE CONDUCTOR 15 kV, SHIELDED, 133% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1421	2	7	220	80	6	1.49	1.67	1.77	195	1124
1422	1	19	220	80	4	1.57	1.83	1.93	225	1273
1423	1/0	19	220	80	4	1.61	1.87	1.99	259	1380
1424	2/0	19	220	80	4	1.65	1.91	2.04	298	1506
1425	3/0	19	220	80	3	1.71	1.97	2.09	343	1691
1426	4/0	19	220	80	3	1.76	2.02	2.15	397	1944
1427	250	37	220	80	2	1.83	2.09	2.22	440	2145
1428	300	37	220	80	2	1.88	2.14	2.27	491	2421
1429	350	37	220	80	1	2.00	2.26	2.39	543	2671
1430	400	37	220	80	1	2.05	2.31	2.43	588	2868
1431	500	37	220	80	1/0	2.16	2.42	2.55	678	3322
1432	600	61	220	80	1/0	2.25	2.51	2.63	758	3851
1433	750	61	220	110	2/0	2.36	2.62	2.77	872	4573
1434	1000	61	220	110	2/0	2.51	2.77	2.93	1040	5547

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

**Based on cables in free air, per ICEA Table S135-1. For other installations refer to the ICEA.

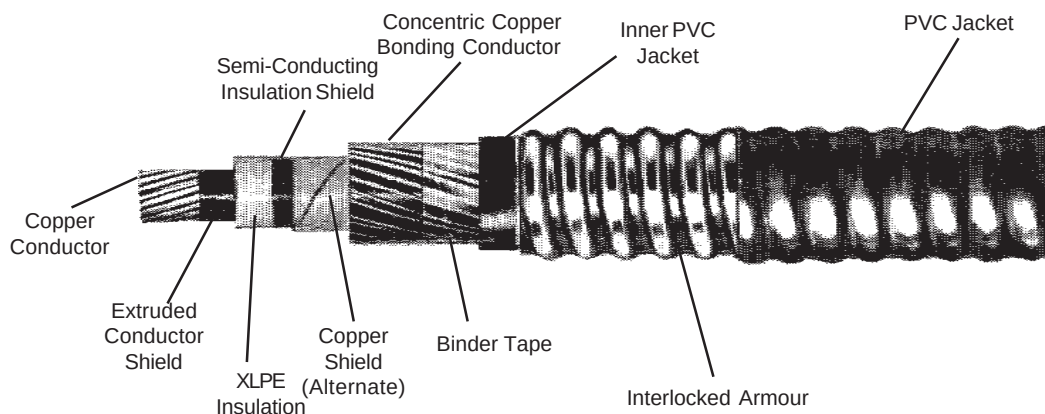
The above data is approximate and subject to normal manufacturing tolerances.

+Weights based on aluminum armour assembly.



United Wire & Cable

25/35 kV TECK ARMoured POWER CABLE, XLPE, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches			Ampacity** 40°C Ambient	Approximate Net+ Weight LBS/KFT
	Size AWG or MCM	No. of Strands				Over Inner Jacket	Over Armour	Over Overall Jacket		

SINGLE CONDUCTOR 25kV, SHIELDED, 100% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1501	2	7	260	80	6	1.10	1.28	1.39	195	1160
1502	1	19	260	80	4	1.14	1.32	1.43	225	1265
1503	1/0	19	260	80	4	1.18	1.36	1.47	259	1370
1504	2/0	19	260	80	4	1.23	1.41	1.51	298	1480
1505	3/0	19	260	80	3	1.30	1.48	1.58	343	1640
1506	4/0	19	260	80	3	1.35	1.53	1.66	397	1860
1507	250	37	260	80	2	1.41	1.59	1.72	440	2035
1508	300	37	260	80	2	1.47	1.65	1.77	491	2310
1509	350	37	260	80	1	1.52	1.78	1.90	543	2530
1510	400	37	260	80	1	1.56	1.82	1.95	588	2860
1511	500	37	260	80	1/0	1.65	1.91	2.04	678	3290
1512	600	61	260	110	1/0	1.80	2.06	2.18	758	3640
1513	750	61	260	110	2/0	1.92	2.18	2.30	872	4390
1514	1000	61	260	110	2/0	2.07	2.33	2.48	1040	5480

SINGLE CONDUCTOR 25-28kV SHIELDED, (133%)

Product Code Prefix 01-10-xxxx

SINGLE CONDUCTOR 35kV SHIELDED, (100%)

Product Code Prefix 01-10-xxxx

1521	2	7	345	80	6	1.30	1.48	1.58	195	1435
1522	1	19	345	80	4	1.34	1.52	1.62	225	1560
1523	1/0	19	345	80	4	1.38	1.56	1.68	259	1650
1524	2/0	19	345	80	4	1.42	1.60	1.73	298	1805
1525	3/0	19	345	80	3	1.47	1.65	1.78	343	2030
1526	4/0	19	345	80	3	1.53	1.79	1.91	397	2191
1527	250	37	345	80	2	1.59	1.85	1.97	440	2395
1528	300	37	345	80	2	1.64	1.90	2.03	491	2592
1529	350	37	345	110	1	1.75	2.01	2.14	543	2825
1530	400	37	345	110	1	1.80	2.06	2.18	588	2990
1531	500	37	345	110	1/0	1.91	2.17	2.29	678	3450
1532	600	61	345	110	1/0	1.99	2.25	2.38	758	3890
1533	750	61	345	110	2/0	2.09	2.35	2.51	872	4685
1534	1000	61	345	110	2/0	2.24	2.50	2.66	1040	5755

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

**Based on cables in free air, per ICEA Table S135-1. For other installations refer to the ICEA.

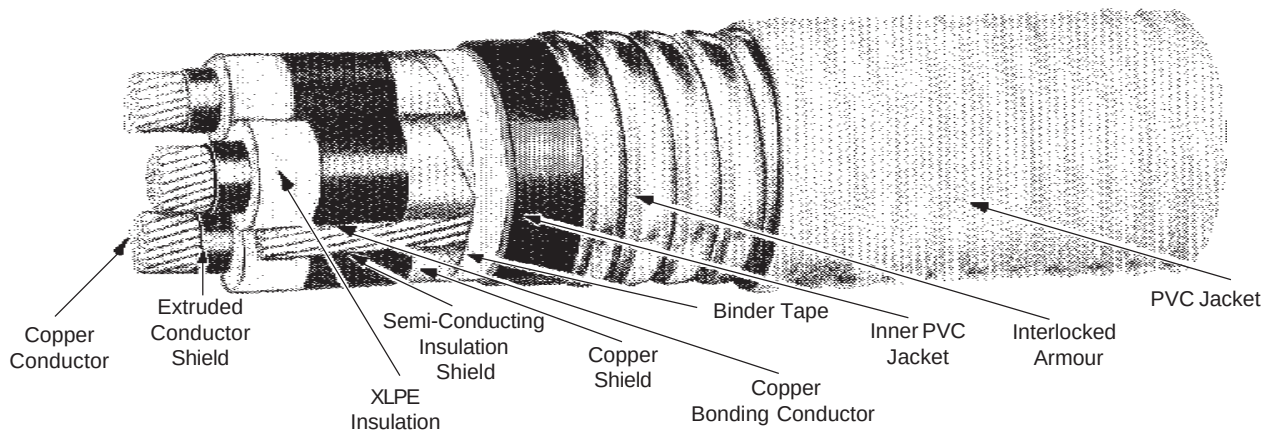
The above data is approximate and subject to normal manufacturing tolerances.

+Weights based on aluminum armour assembly.



United Wire & Cable

5 kV TECK ARMoured POWER CABLE, XLPE, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches		Ampacity+ 30°C Ambient	Approximate Net Weight~ LBS/KFT
	Size AWG or MCM	No. of Strands				Over Armour	Over Overall Jacket		
01-10-									

THREE CONDUCTOR 5kV, SHIELDED

Product Code Prefix 01-10-xxxx

1601	8	7	90	80	10	1.29	1.40	45	920
1602	6	7	90	80	8	1.37	1.48	65	1120
1603	4	7	90	80	8	1.47	1.58	85	1360
1604	2	7	90	80	6	1.60	1.72	120	1760
1605	1	19	90	80	6	1.76	1.89	140	2000
1606	1/0	19	90	80	6	1.85	1.97	155	2300
1607	2/0	19	90	110	6	2.00	2.13	185	2650
1608	3/0	19	90	110	4	2.11	2.24	210	3250
1609	4/0	19	90	110	4	2.23	2.36	235	3850
1610	250	37	90	110	4	2.37	2.52	265	4350
1611	300	37	90	110	4	2.48	2.64	295	4900
1612	350	37	90	110	3	2.59	2.75	325	5600
1613	400	37	90	110	3	2.69	2.84	345	6200
1614	500	37	90	110	2	2.92	3.08	395	7300
1615	600	61	90	140	2	3.16	3.34	455	8400
1616	750	61	90	140	2	3.38	3.56	500	10200
1617	1000	61	90	140	1	3.70	3.88	585	13200

Note: *One uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

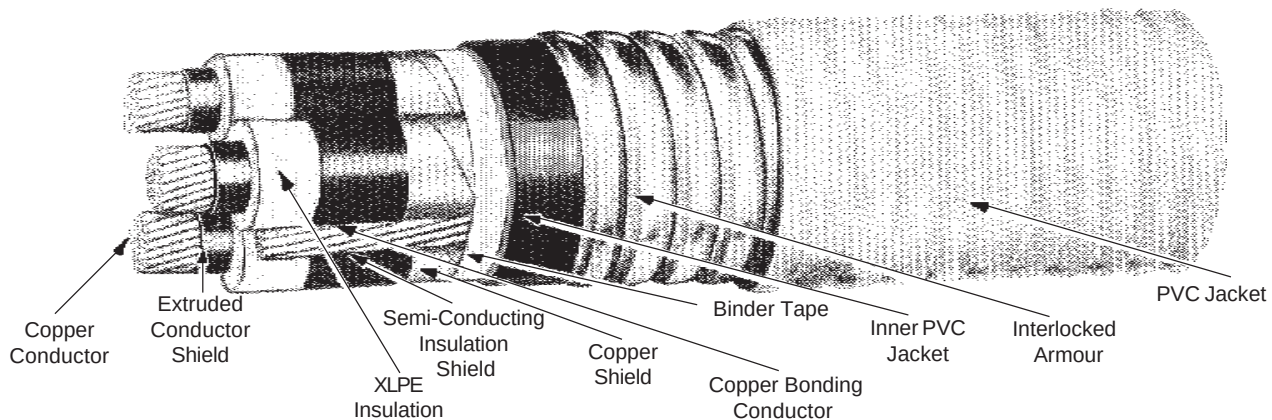
+Based on cables in free air run, per CEC Part 1, Table 2. For other installations refer to the CEC.

~Weights based on based aluminum armour assembly.

The above data is approximate and subject to normal manufacturing tolerances.



8 kV TECK ARMoured POWER CABLE, XLPE, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches		Ampacity+ 40°C Ambient	Approximate Net Weight~ LBS/KFT
	Size AWG or MCM	No. of Strands				Over Armour	Over Overall Jacket		

THREE CONDUCTOR 8kV, SHIELDED, 100% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1701	6	7	115	80	8	1.48	1.59	93	1220
1702	4	7	115	80	8	1.58	1.71	122	1480
1703	2	7	115	80	6	1.79	1.91	159	1900
1704	1	19	115	80	6	1.87	2.00	184	2150
1705	1/0	19	115	110	6	2.02	2.15	211	2400
1706	2/0	19	115	110	6	2.11	2.24	243	2750
1707	3/0	19	115	110	4	2.22	2.35	279	3450
1708	4/0	19	115	110	4	2.34	2.50	321	4000
1709	250	37	115	110	4	2.48	2.63	355	4500
1710	300	37	115	110	4	2.59	2.75	395	5100
1711	350	37	115	110	3	2.70	2.86	435	5700
1712	400	37	115	110	3	2.80	2.95	470	6300
1713	500	37	115	140	2	3.09	3.27	536	7500
1714	600	61	115	140	2	3.27	3.45	585	8600
1715	750	61	115	140	2	3.49	3.67	668	10600
1716	1000	61	115	140	1	3.81	3.99	768	13400

THREE CONDUCTOR 8kV, SHIELDED, 133% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1721	6	7	140	80	8	1.59	1.72	93	1360
1722	4	7	140	80	8	1.77	1.90	122	1600
1723	2	7	140	80	6	1.90	2.02	159	2050
1724	1	19	140	110	6	2.05	2.17	184	2250
1725	1/0	19	140	110	6	2.13	2.26	211	2750
1726	2/0	19	140	110	6	2.22	2.35	243	3100
1727	3/0	19	140	110	4	2.33	2.49	279	3600
1728	4/0	19	140	110	4	2.45	2.61	321	4200
1729	250	37	140	110	4	2.59	2.74	355	4700
1730	300	37	140	110	4	2.70	2.86	395	5300
1731	350	37	140	110	3	2.81	2.97	435	5900
1732	400	37	140	110	3	2.95	3.11	470	6500
1733	500	37	140	140	2	3.20	3.38	536	7600
1734	600	61	140	140	2	3.38	3.56	585	9100
1735	750	61	140	140	2	3.60	3.78	668	10800
1736	1000	61	140	140	1	3.92	4.10	768	12800

Note:*One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

+Based on cables in free air, per ICEA Pub. P-46-426. For other installations refer to the ICEA.

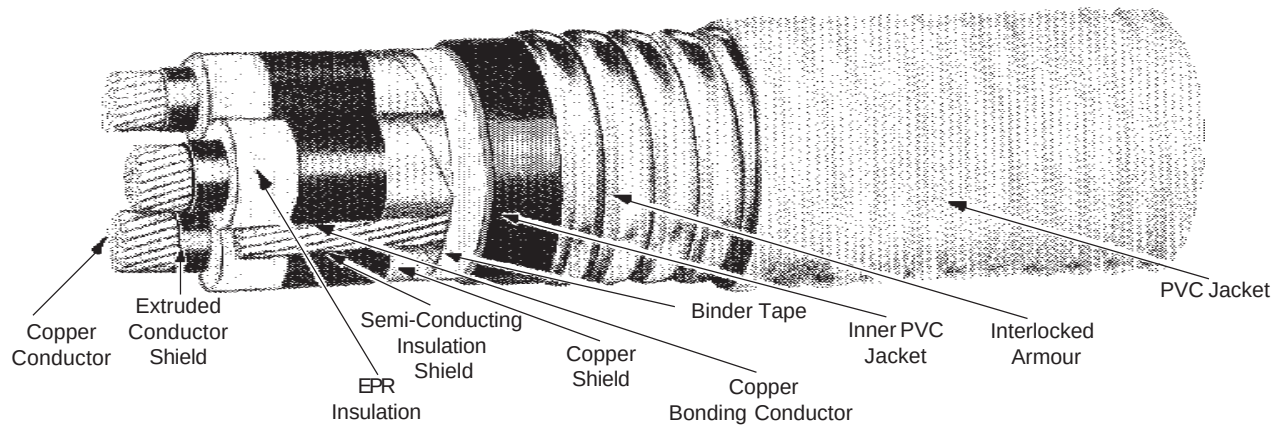
The above data is approximate and subject to normal manufacturing tolerances.

~Weights based on aluminum armour assembly.



United Wire & Cable

15 kV TECK ARMoured POWER CABLE, EPR, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches		Ampacity+ 40°C Ambient	Approximate Net Weight~ LBS/KFT
	Size AWG or MCM	No. of Strands				Over Armour	Over Overall Jacket		
01-10-									

THREE CONDUCTOR 15kV, SHIELDED, 100% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1801	2	7	175	110	6	2.12	2.24	164	2400
1802	1	19	175	110	6	2.20	2.33	187	2650
1803	1/0	19	175	110	6	2.29	2.41	215	2950
1804	2/0	19	175	110	6	2.38	2.54	246	3400
1805	3/0	19	175	110	4	2.49	2.65	283	3900
1806	4/0	19	175	110	4	2.61	2.77	325	4450
1807	250	37	175	110	4	2.74	2.90	359	4950
1808	300	37	175	110	4	2.90	3.06	399	5600
1809	350	37	175	140	3	3.07	3.25	438	6200
1810	400	37	175	140	3	3.17	3.34	470	6800
1811	500	37	175	140	2	3.36	3.53	536	8200
1812	600	61	175	140	2	3.53	3.71	585	9400
1813	750	61	175	140	2	3.75	3.93	669	11000
1814	1000	61	175	140	1	4.12	4.30	770	14000

THREE CONDUCTOR 15kV, SHIELDED, 133% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1821	2	7	220	110	6	2.31	2.47	164	2700
1822	1	19	220	110	6	2.40	2.55	187	3000
1823	1/0	19	220	110	6	2.48	2.64	215	3300
1824	2/0	19	220	110	6	2.58	2.73	246	3650
1825	3/0	19	220	110	4	2.69	2.84	283	4200
1826	4/0	19	220	110	4	2.81	2.96	325	4750
1827	250	37	220	110	4	2.98	3.14	359	5300
1828	300	37	220	140	4	3.16	3.34	399	5900
1829	350	37	220	140	3	3.27	3.45	438	6500
1830	400	37	220	140	3	3.36	3.54	470	7300
1831	500	37	220	140	2	3.55	3.73	536	8500
1832	600	61	220	140	2	3.73	3.91	585	9700
1833	750	61	220	140	2	3.95	4.13	669	11400
1834	1000	61	220	140	1	4.32	4.50	770	14200

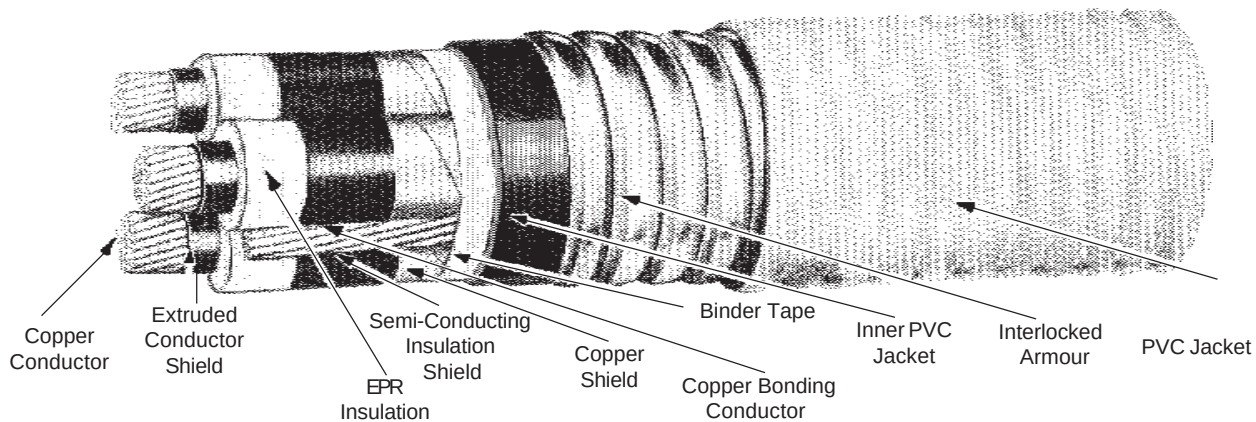
Note: *One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.
+Based on cables in free air, per ICEA Pub. P-46-426. For other installations refer to the ICEA.

The above data is approximate and subject to normal manufacturing tolerances.
~Weights based on aluminum armour assembly.



United Wire & Cable

25/35 kV TECK ARMoured POWER CABLE, EPR, SHIELDED, HL/FT4



90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL



Product Code	Conductor		Insulation in Mils	Inner Jacket in Mils	Size* AWG Copper Bonding Conductor	Approximate O.D. in Inches		Ampacity+ 40°C Ambient	Approximate Net Weight- LBS/KFT
	Size AWG or MCM	No. of Strands				Over Armour	Over Overall Jacket		

THREE CONDUCTOR 25kV, SHIELDED, 100% INSULATION LEVEL Product Code Prefix 01-10-xxxx

1901	2	7	260	110	6	2.49	2.65	164	3220
1902	1	19	260	110	6	2.57	2.73	187	3502
1903	1/0	19	260	110	6	2.66	2.82	215	4057
1904	2/0	19	260	110	6	2.75	2.91	246	4478
1905	3/0	19	260	110	4	2.91	3.06	283	5015
1906	4/0	19	260	140	4	3.09	3.27	325	5627
1907	250	37	260	140	4	3.22	3.40	359	6174
1908	300	37	260	140	4	3.33	3.51	399	6722
1909	350	37	260	140	3	3.44	3.62	438	7457
1910	400	37	260	140	3	3.54	3.72	470	8210
1911	500	37	260	140	2	3.73	3.91	536	9414
1912	600	61	260	140	2	3.91	4.09	585	10519
1913	750	61	260	140	2	4.17	4.35	669	12250

THREE CONDUCTOR 25-28kV SHIELDED, (133%)

Product Code Prefix 01-10-xxxx

THREE CONDUCTOR 35kV SHIELDED, (100%)

Product Code Prefix 01-10-xxxx

1921	2	7	345	110	6	2.91	3.06	164	3530
1922	1	19	345	110	6	2.99	3.15	187	3817
1923	1/0	19	345	140	6	3.14	3.32	215	4382
1924	2/0	19	345	140	6	3.23	3.41	246	4791
1925	3/0	19	345	140	4	3.34	3.52	283	5316
1926	4/0	19	345	140	4	3.46	3.64	325	5908
1927	250	37	345	140	4	3.59	3.77	359	6483
1928	300	37	345	140	4	3.71	3.89	399	6991
1929	350	37	345	140	3	3.82	3.99	438	7755
1930	400	37	345	140	3	3.91	4.09	470	8456
1931	500	37	345	140	2	4.15	4.33	536	9696

Note: *One concentric uninsulated copper bonding conductor sized in accordance with CAN/CSA C68.3-M92.

+Based on cables in free air, per ICEA Pub. P-46-426. For other installations refer to the ICEA.

The above data is approximate and subject to normal manufacturing tolerances.

~Weights based on aluminum armour assembly.



United Wire & Cable