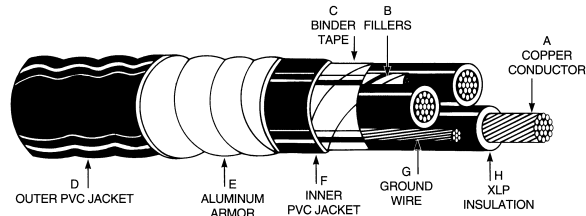


# ARMORED POWER CABLE

# Interlocked 1kV Teck

### DESCRIPTION:

- 1 - 3 copper conductors
- Aluminum armor
- XLP insulation
- Teck 90
- Copper ground wire
- PVC jacket



PWC Catalog#	Size AWG or kcmil	Conductor Diameter	Insulation Thickness	Inner Jacket Thickness	Approximate Diameter Over			Grd. Min. Cond. Size	Approx. Net Weight	Allowable Ampacity+
					Inner Jacket	Armor	Outer Jacket			
		inch	inch	mils	inch	inch	inch	AWG	lb./Mft.	
<b>SINGLE CONDUCTOR</b>										
07-0113	1	0.322	80	45	.74	.95	1.06	4	740	210
07-0114	1/0	0.362	80	45	.78	1.00	1.10	4	825	245
07-0115	2/0	0.406	80	45	.83	1.04	1.14	4	930	285
07-0116	3/0	0.456	80	45	.88	1.09	1.20	3	1105	330
07-0117	4/0	0.512	80	45	.93	1.17	1.28	3	1330	385
07-0118	250	0.558	90	60	1.04	1.27	1.38	2	1575	425
07-0119	300	0.611	90	60	1.09	1.33	1.43	2	1765	480
07-0120	350	0.661	90	60	1.17	1.40	1.51	1	2030	530
07-0121	500	0.789	90	60	1.31	1.55	1.66	1/0	2690	660
07-0122	750	0.968	90	60	1.43	1.67	1.78	2/0	3555	845
07-0123	1000	1.117	90	60	1.63	1.87	1.98	2/0	4530	1000
<b>THREE CONDUCTOR</b>										
07-0124	2	0.283	60	80	1.09	1.33	1.43	6	1450	120
07-0125	1	0.322	80	80	1.26	1.50	1.61	6	1740	140
07-0126	1/0	0.362	80	80	1.34	1.58	1.71	6	2015	155
07-0127	2/0	0.406	80	80	1.44	1.68	1.81	6	2365	185
07-0128	3/0	0.456	80	80	1.55	1.79	1.92	4	2795	210
07-0129	4/0	0.512	80	80	1.67	1.91	2.04	4	3310	235
07-0130	250	0.558	90	110	1.88	2.12	2.25	4	4010	265
07-0131	300	0.611	90	110	2.00	2.24	2.37	4	4580	295
07-0132	350	0.661	90	110	2.10	2.34	2.50	3	5290	325
07-0133	500	0.789	90	110	2.38	2.62	2.78	2	7040	395
07-0134	750	0.968	90	110	2.66	2.90	3.07	2	9590	500

+Single conductor ampacities are based on Table 1 of the CEC, 1994 Edition. Ampacities are for single conductors in free air, 90°C conductor, 30°C ambient temperature, for use as specified in Rule 4-004 and for use in cable trays as specified in Rule 12-2212. Three conductor ampacities are based on Table 2 of the CEC, 1994 Edition. Ampacities are for not more than 3 conductors in raceway or cable, 90°C conductor, 30°C ambient temperature, for use as specified in Rule 4-004 and for use in cable trays as specified in Rule 12-2212.

## 1kV CABLE CONSTRUCTION

<b>Conductor</b>	The conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA Part 2.
<b>Standards</b>	The following standards will form part of this specification - CSA C-22.2, ASTM B3, ASTM B8, ICEA S-66-524 and Ontario Hydro Provisional Spec L 891 SM-77.
<b>Separator</b>	To facilitate the stripping of the insulation during termination, an opaque color mylar tape is applied longitudinally over the phase conductors.
<b>Insulation</b>	The insulation will be XLPE as approved by CSA on types RW90 minus 40°C per CSA C-22.2
<b>Construction</b>	This CSA approved construction is rated minus 40°C and is moisture and weather resistant. For use in hazardous locations (HL). Flame rating of FT4. Acid gas evolution - less than 14% by weight of non-metallic components.
<b>Grounding Conductor</b>	The grounding conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
<b>Assembly</b>	The insulated power conductors will be cabled round with fillers and with a grounding conductor in outer interstice(s) and covered with a binder tape.
<b>Armor</b>	A single strip of interlocked armor of aluminum alloy will be applied over the assembly.
<b>Inner Jacket</b>	The core assembly will be jacketed with black polyvinyl chloride (PVC) compound, which is flame and moisture resistant, and is suitable for installation in temperatures down to minus 40°C.
<b>Outer Jacket</b>	The cable will be covered with a black color, heat, flame and moisture resistant polyvinyl chloride (PVC) compound. The jacket is suitable for installation in temperatures down to minus 40°C. The jacket meets the flame test, in accordance with Ontario Hydro Spec L891-SM-77.
<b>Identification</b>	Manufacturer's identification will be printed on the outer surface of the jacket. Insulated singles have phase identification printed on each phase in accordance with CSA C-22.2 (1-BLACK, 2-RED, 3-BLUE).
<b>Tests</b>	Physical and electrical tests will be conducted in accordance with the requirements of the referenced standards.

### APPLICATIONS:

- Paper Mills
- Petrochemical Plants
- Petroleum Plants
- Commercial Buildings

Teck 90 is an ideal general purpose cable with excellent chemical and moisture resistance and is characterized by mechanical toughness. Cables are suitable for installation in ladder type trays, concealed or exposed, wet or dry locations and vertical installations.

### SCOPE:

This specification covers single and multi-conductor 1kV Teck 90 CSA approved cable construction. Each conductor is insulated with XLPE (cross-linked thermosetting polyethylene) insulation. Cable assembly has an uninsulated ground wire, PVC inner jacket, aluminum interlocked armor and black color outer jacket. These cables are capable of operating continuously at a temperature of 90°C for normal operations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

### SPECIFICATIONS:

Manufactured and tested in accordance with the latest revisions of CSA Standard C22.2, ASTM B3, ASTM B8, ICEA S-66-524, and Ontario Hydro Provisional Spec. L891 SM-77.



PITTSBURGH WIRE & CABLE INC.

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