

# TECK90

TRXLPE/PVC/AIA/PVC, Power, Unshielded, Armored  
5 kV, CSA TECK90, Single Conductor



## Product Construction:

### Conductor:

- 6 AWG thru 1000 kcmil bare copper compact Class B strand

### Strand Shield:

- A thermoset semi-conducting shield is extruded over the conductor

### Insulation:

- Tree-Retardant Cross-linked Polyethylene (TRXLPE), Type RW90

### Ground (Bonding) Conductor:

- The conductor is a concentric serving of solid bare copper wires applied over the insulation

### Inner Jacket:

- Lead-free, flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

### Armor:

- Aluminum Interlocked Armor (AIA)

### Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓<sup>®</sup> AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

### Options:

- Galvanized Steel Interlocked Armor (GSIA)

### Applications:

- For exposed and concealed wiring in dry, damp or wet locations
- For use in ventilated, non-ventilated and ladder-type cable trays in dry, damp or wet locations
- For direct earth burial (with protection as required by inspection authority)
- For wiring in all hazardous locations when used with certified HL cable glands

### Features:

- Rated at 90°C wet or dry
- Excellent crush, oil and chemical resistance
- Provides long service life
- Meets cold bend and impact tests at -40°C

## Compliances:

### Industry Compliances:

- CSA Standard C22.2 No. 131 and No. 174

### Flame Test Compliances:

- CSA FT1 and FT4
- IEEE 383 (70,000 BTU/hr)
- UL 1581 (70,000 BTU/hr)
- IEEE 1202 (70,000 BTU/hr) CSA FT4
- ICEA T-30-520 (70,000 BTU/hr)

### Other Compliances:

- Hazardous Location Rating: HL
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

## Packaging:

- For Canadian customers, lengths are provided on returnable wood or steel reels that require a deposit. Extra charges apply for lagging, pulling eyes, paralleling and plexing
- For U.S. customers, material cut to length and shipped on non-returnable wood reels, while lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG)	NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/AL ARMOR		AMPACITY** (30°C AMBIENT)
				INSULATION		ARMOR		CABLE		LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
				INCHES	mm	INCHES	mm	INCHES	mm					
<b>6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—UNSHIELDED—90 MILS INS. (2.29 mm)—5 kV</b>														
17496.100600*	1	6	8	0.39	10.0	0.76	19.3	0.85	21.6	143	213	370	550	105
17496.100400*	1	4	6	0.43	10.5	0.84	21.4	0.93	23.7	223	332	490	730	140
17496.100300*	1	3	6	0.46	11.7	0.86	21.9	0.95	24.2	229	341	540	800	165
17496.100200*	1	2	6	0.49	12.5	0.89	22.6	0.98	24.9	301	448	590	890	190
17496.100100*	1	1	4	0.52	13.3	0.93	23.6	1.02	25.9	405	603	720	1060	220
17496.105100*	1	1/0	4	0.56	14.2	0.96	24.4	1.06	26.9	474	705	800	1190	260
17496.105200*	1	2/0	4	0.60	15.2	1.03	26.2	1.13	28.7	561	835	900	1350	300
17496.105300*	1	3/0	3	0.64	16.3	1.08	27.5	1.18	30.0	708	1054	1130	1680	350
17496.105400*	1	4/0	3	0.70	17.8	1.16	29.5	1.26	32.0	847	1261	1330	1970	405
17496.106000*	1	250	2	0.75	19.1	1.24	31.5	1.34	34.1	1012	1506	1530	2280	455
17496.106200*	1	350	1	0.85	21.5	1.34	34.0	1.44	36.6	1388	2066	1960	2910	570
17496.106500*	1	500	1/0	0.97	24.6	1.49	37.9	1.59	40.4	1548	2304	2570	3830	700
17496.107000*	1	750	2/0	1.15	29.2	1.68	42.7	1.78	45.2	2243	3338	3900	5800	885

Dimensions and weights are nominal; subject to industry tolerances.

\*Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

\*\*Ampacity is based on CE Code Part 1, Table 1 (single conductor in free air) and Rule 4-004.