

TECK90

XLPE/PVC/AIA/PVC, Power/Control Composite
600 V, CSA TECK90, Three Power and Three 14 AWG Control Conductors

Product Construction:

Conductor:

- 12 AWG thru 8 AWG bare copper Class B compressed concentric round to ASTM B8
- 6 AWG thru 4/0 AWG bare copper compact Class B strand

Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 14 AWG to 2 AWG—black, red and blue; 1 AWG to 4/0 AWG—printed numbers

Ground (Bonding) Conductor:

- The conductor consists of one uninsulated stranded bare copper conductor

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 ✓[®] AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), black

Options:

- Galvanized Steel Interlocked Armor (GSIA)

Applications:

- For exposed and concealed wiring in dry, damp or wet locations



Applications (cont'd.):

- 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)

Compliances (cont'd.):

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)	MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/ARMOR				AMPACITY** POWER COND. (30°C AMBIENT)
						INSULATION		ARMOR		CABLE		LBS/1000 FT	kg/km	LBS/1000 FT		kg/km		
						INCHES	mm	INCHES	mm	INCHES	mm			AL	STEEL	AL	STEEL	

12 AWG THRU 4/0 AWG—THREE POWER CONDUCTORS AND THREE 14 AWG CONTROL CONDUCTORS—30 MILS (.76 mm)—600 V

333410*†	3	12	14	.030	0.76	0.15	3.9	0.78	19.8	0.86	21.8	114	170	356	519	530	789	30
311320*†	3	10	12	.030	0.76	0.18	4.5	0.81	20.6	0.89	22.6	158	235	416	586	619	921	40
311330*†	3	8	10	.045	1.14	0.24	6.1	0.95	24.0	1.00	25.4	208	310	541	729	805	1198	55
11288.210600*	3	6	8	.045	1.14	0.28	7.0	0.99	25.0	1.20	30.5	338	503	696	896	1035	1540	75
11288.210400*	3	4	8	.045	1.14	0.32	8.2	1.14	28.8	1.25	31.8	485	722	972	1293	1446	2151	95
11288.210200*	3	2	6	.045	1.14	0.38	9.7	1.27	32.3	1.39	35.2	747	1112	1295	1662	1927	2868	130
11288.210100*	3	1	6	.055	1.40	0.44	11.1	1.39	35.2	1.50	38.1	911	1356	1539	1941	2290	3408	145
11288.215100*	3	1/0	6	.055	1.40	0.48	12.2	1.47	37.3	1.59	40.3	1117	1662	1798	2227	2676	3982	170
11288.215200*	3	2/0	6	.055	1.40	0.53	13.3	1.57	39.8	1.71	43.3	1378	2051	2150	2609	3199	4760	195
11288.215300*	3	3/0	4	.055	1.40	0.58	17.1	1.68	42.5	1.82	46.1	1753	2609	2592	3087	3857	5740	225
11288.215400*	3	4/0	4	.055	1.40	0.63	16.0	1.80	45.7	1.94	49.1	2167	3225	3080	3615	4583	6820	260

Dimensions and weights are nominal; subject to industry tolerances.

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

†Contact Customer Service for steel catalog number.

**Ampacity is based on CE Code Part 1, Table 2 (Three conductors in raceway [conduit]) and Rule 4-004.

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 ✓✓[®] AG14 flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC), orange

Options:

- Galvanized Steel Interlocked Armor (GSIA)

Applications:

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				INSULATION		ARMOR		CABLE		LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
				INCHES	mm	INCHES	mm	INCHES	mm					
6 AWG THRU 1000 kcmil—SINGLE CONDUCTOR—UNSHIELDED—90 MILS INS. (2.29 mm)—5 kV														
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.