

# VERTITECK® TECK90

XLPE/PVC/GSIA/PVC, Power, Unshielded, Armored  
1 kV, CSA TECK90, Three Conductor

## Product Construction:

### Conductor:

- 1/0 AWG thru 1000 kcmil bare copper compact Class B strand

### Insulation:

- Cross-linked Polyethylene (XLPE), Type RW90
- Color-coded: 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:

- Galvanized Steel Interlocked Armor (GSIA)

### Overall Jacket:

- Lead-free, ACID-FLAME-CHECK ✓✓<sup>®</sup> 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
- 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



## Applications (cont'd.):

- Cost-effective alternative to installation in conduit
- Typical vertical installations include mine shafts, tall commercial buildings, inclined tunnels and vertical cable trays  
(Note that the overall jacket is required for all damp and wet locations and for all corrosive environments: CE Code Part 1, Rules 12-708 and 22-200)

## Features:

- Rated at 90°C wet or dry
- The jacket under the armor (inner jacket) is designed with longitudinal raised ribs. The armor is then applied and bites into these ribs to provide a solidly locked construction. This feature enables the cable to be self-supporting (core will not slip) during vertical installation when cable weight is supported by the copper conductors
- Lighter than mine shaft cable with conventional steel wire armor (SWA)
- More flexible than SWA cables, resulting in easier handling during installation
- Terminations and connections to electrical cabinets are similar to standard TECK90 cables
- 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)	MIN. AVG. INSULATION THICKNESS		NOMINAL DIAMETER (OVER)						COPPER WEIGHT		NET WEIGHT W/STEEL ARMOR		AMPACITY** (30°C AMBIENT)	MAXIMUM SELF-SUPPORTING LENGTH*** (m)
						INSULATION		ARMOR		CABLE							
						INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km		
<b>1/0 AWG THRU 1000 kcmil—THREE CONDUCTOR—1000 V</b>																	
11289.415100*	3	1/0	6	0.080	2.03	0.36	9.0	1.66	42.2	1.78	45.2	1082	1610	2520	3760	170	212
11289.415200*	3	2/0	6	0.080	2.03	0.54	13.8	1.75	44.5	1.87	47.5	1342	1997	2880	4280	195	232
11289.415300*	3	3/0	4	0.080	2.03	0.59	15.0	1.85	47.0	1.97	50.1	1719	2558	3360	5000	225	254
11289.415400*	3	4/0	4	0.080	2.03	0.64	16.3	1.96	49.8	2.08	52.9	2133	3174	4080	6080	260	260
11289.416000*	3	250	4	0.090	2.29	0.71	18.0	2.15	54.6	2.27	57.7	2498	3718	4790	7130	290	270
11289.416200*	3	350	3	0.090	2.29	0.81	20.4	2.36	60.0	2.50	63.5	2475	5171	6100	9080	350	288
11289.416500*	3	500	2	0.090	2.29	0.93	23.5	2.62	66.6	2.76	70.1	4891	7279	7900	11760	430	***
11289.417000*	3	750	2	0.090	2.29	1.10	27.9	2.99	76.0	3.13	79.5	7306	10873	10830	16110	535	***
11289.417500*	3	1000	1	0.090	2.29	1.25	31.8	3.38	85.6	3.54	89.9	9714	14456	13970	20780	615	***

Dimensions and weight 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 2 (three conductors in raceway [conduit]) and Rule 4-004.

\*\*\*Maximum self-supporting lengths are based on safety factor of 5 and a tensile strength of 37,000 psi for soft drawn copper.

Higher safety factors or lower tensile strength values may be required to address more stringent safety regulations.