

## Description

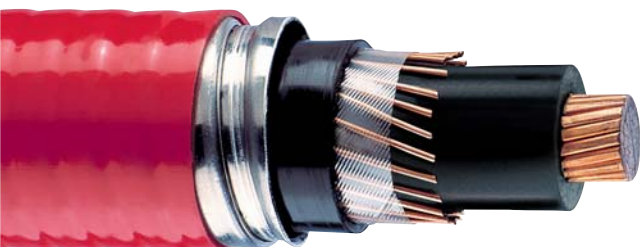
Single copper conductor with a semiconducting conductor shield, high dielectric strength VOLTALENE® TRXLPE insulation, helically applied uncoated copper bonding conductor, binder tape, black inner PVC jacket, aluminum interlocking armour (AIA), and an overall PVC Jacket.

## Specifications

## Ratings

<b>CSA</b>	CSA C22.2 No. 131	FT4 -40°C Sunlight Resistant AG14
<b>CSA</b>	CSA C22.2 No. 174	HL
<b>IEEE</b>	IEEE 383 Flame Test	
<b>ICEA</b>	ICEA T-29-520	210,000 Btu Vertical Flame Test
<b>ICEA</b>	ICEA T-30-520	70,000 Btu Vertical Flame Test

For 90°C continuous, 130°C emergency, 250°C short circuit operation.



## Design Parameters

### Conductor

- Soft drawn, bare, Class B compact or compressed strand copper per ASTM.

### Conductor Shield

- Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

### Insulation

- High dielectric strength tree-retardant crosslinked polyethylene (TRXLPE) VOLTALENE® insulation, exhibiting an optimum balance of mechanical and electrical properties, insuring resistance to treeing.

### Bonding Conductor

- Helically applied soft drawn, bare copper wires covered with a binder tape.

### Inner Jacket

- Sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the binder tape.

### Armour

- Flexible aluminum interlocking armour (AIA) applied over the inner jacket for mechanical protection.

### Outer Jacket

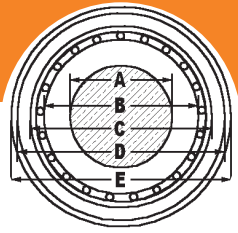
- Low-temperature, sunlight-resistant polyvinyl chloride (PVC) jacket applied over the armour.

## Options

- Super smooth conductor shield
- Colored outer jacket
- No outer jacket
- Aluminum phase conductor and bonding conductor
- Strandseal®

## Installations

- In Cable Tray
- Conduit in Air
- Direct Buried
- Underground Duct
- Isolated in Air
- Wet Locations
- Dry Locations
- Industrial



# NONSHIELDED 1/C XLPE TECK90 Armortek™

5 kV  
100% | 133%

Product Number	Conductor	Insulation Thickness (mil/s)	Conductor Diameter (mm)		Insulation Diameter (mm)		Inner Jacket Diameter (mm)		Armour Diameter (mm)		Overall Diameter (mm)	Cable Weight (kg/km)	Equivalent Bonding Conductor Size	Minimum Bending Radius (mm)		† Amperacity (Amps)	**Inductive Reactance (Ω/km)
			(A)	(B)	(C)	(D)	(E)	90°C	90°C								
<b>5kV 100%/133% Copper Single Conductor</b>																	
Q326ØCC	4 AWG CU	90	5.41	11.20	16.33	21.41	23.77	749	6 AWG CU	204	145	0.26					
Q346ØCC	2 AWG CU	90	6.81	12.60	17.73	22.81	25.16	899	6 AWG CU	204	190	0.25					
Q366ØCC	1 AWG CU	90	7.59	13.39	18.52	23.60	25.95	1071	4 AWG CU	229	225	0.24					
Q386ØCC	1/0 AWG CU	90	8.59	14.38	19.51	25.10	27.45	1266	4 AWG CU	229	260	0.24					
Q396ØCC	2/0 AWG CU	90	9.60	15.39	20.52	26.11	28.47	1422	4 AWG CU	229	300	0.23					
Q3A6ØCC	3/0 AWG CU	90	10.82	16.61	22.28	27.86	30.22	1687	3 AWG CU	254	345	0.23					
Q3B6ØCC	4/0 AWG CU	90	12.14	17.93	24.36	29.95	32.30	1979	3 AWG CU	280	400	0.22					
Q3C6ØCC	250 MCM CU	90	13.28	19.28	25.70	31.29	33.65	2264	2 AWG CU	280	445	0.22					
Q3D6ØCC	350 MCM CU	90	15.72	21.72	28.80	34.39	36.75	2906	1 AWG CU	305	550	0.21					
Q3E6ØCC	500 MCM CU	90	18.77	24.77	31.85	37.44	39.80	3789	1/0 AWG CU	331	695	0.21					
Q3F6ØØC	750 MCM CU	90	24.59	30.78	38.76	45.11	47.92	5521	2/0 AWG CU	407	900	0.20					
Q3G6ØØC	1000 MCM CU	90	28.37	34.57	42.55	48.90	51.70	6817	2/0 AWG CU	432	1075	0.19					

Information Subject to Change without Notice.

**PRODUCT NOTES:**

†Amperacities are based on the following:

▲ Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.  
All metric (SI) dimensions are derived from a soft conversion.

Isolated in Air or Uncovered Cable Tray: Three single cables, spaced one cable diameter (minimum) horizontally, 90°C conductor temperature, and 40°C ambient temperature.

\*\*Increase by approximately 15% for steel armoured cables.



1-800-845-8507 (US)  
1-800-263-4405 (West-CAN)  
1-800-361-1418 (East-CAN)

www.prysmianusa.com  
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