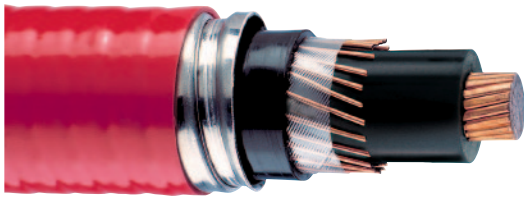


## 5kV NONSHIELDED 1/C XLPE TECK90 Armortek™

Medium Voltage Commercial & Industrial Cables



### Applications

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

**CSA-** CSA C22.2 No. 131

### Ratings

FT4  
 -40°C  
 Sunlight Resistant  
 AG14

**CSA-** CSA C22.2 No.174

HL

**IEEE-** IEEE 383

Flame Test

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

### Options

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

**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.

### Installation



In Cable Tray



Conduit in Air



Direct Buried



Underground Duct



Isolated in Air



Wet Locations



Dry Locations



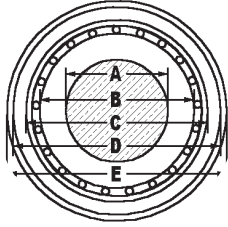
Industrial

### Design Parameters

**CONDUCTOR:** Soft drawn, bare, Class B compact or compressed  
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 137 Commerce Drive | Johnstown, Ontario K0E 1T1 | [www.prysmiancanada.com](http://www.prysmiancanada.com)

## 5kV NONSHIELDED 1/C XLPE TECK90 Armortek™

100%/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (milis)	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)	†Ampacity (Amps)	**Inductive Reactance (Ω/km)
		(A)	(B)	(C)	(D)	(E)					90°C	90°C
<b>5kV 100%/133% Copper Single Conductor</b>												
Q3260CC	4 AWG CU	90	5.41	11.20	16.33	21.41	23.77	749	6 AWG CU	204	145	0.26
Q3460CC	2 AWG CU	90	6.81	12.60	17.73	22.81	25.16	899	6 AWG CU	204	190	0.25
Q3660CC	1 AWG CU	90	7.59	13.39	18.52	23.60	25.95	1071	4 AWG CU	229	225	0.24
Q3860CC	1/0 AWG CU	90	8.59	14.38	19.51	25.10	27.45	1266	4 AWG CU	229	260	0.24
Q3960CC	2/0 AWG CU	90	9.60	15.39	20.52	26.11	28.47	1422	4 AWG CU	229	300	0.23
Q3A60CC	3/0 AWG CU	90	10.82	16.61	22.28	27.86	30.22	1687	3 AWG CU	254	345	0.23
Q3B60CC	4/0 AWG CU	90	12.14	17.93	24.36	29.95	32.30	1979	3 AWG CU	280	400	0.22
Q3C60CC	250 MCM CU	90	13.28	19.28	25.70	31.29	33.65	2264	2 AWG CU	280	445	0.22
Q3D60CC	350 MCM CU	90	15.72	21.72	28.80	34.39	36.75	2906	1 AWG CU	305	550	0.21
Q3E60CC	500 MCM CU	90	18.77	24.77	31.85	37.44	39.80	3789	1/0 AWG CU	331	695	0.21
Q3F60CC	750 MCM CU	90	24.59	30.78	38.76	45.11	47.92	5521	2/0 AWG CU	407	900	0.20
Q3G60CC	1000 MCM CU	90	28.37	34.57	42.55	48.90	51.70	6817	2/0 AWG CU	432	1075	0.19

**PRODUCT NOTES:**

<sup>5</sup> 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.

**†Ampacities are based on the following:**

Isolated in Air or Uncovered Cable Tray per 2011 NEC Table 310.60(C)(69) and 392.80(B)(2)(b): 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.

**Prysmian Group**

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