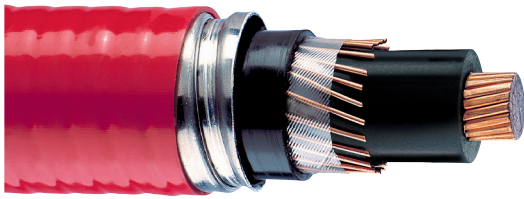


5kV NONSHIELDED 1/C XLPE TECK90 Armortek™

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®

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.

Installation



In Cable Tray



Conduit in Air



Direct Buried



Underground Duct



Isolated in Air



Wet Locations



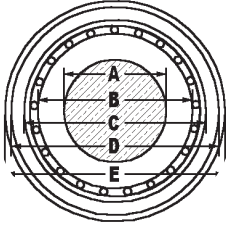
Dry Locations



Industrial

5kV NONSHIELDED 1/C XLPE TECK90 Armortek™

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
5kV Copper Single Conductor												
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
Q3F600C	750 MCM CU	90	24.59	30.78	38.76	45.11	47.92	5521	2/0 AWG CU	407	900	0.20
Q3G600C	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:

⁵ 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.