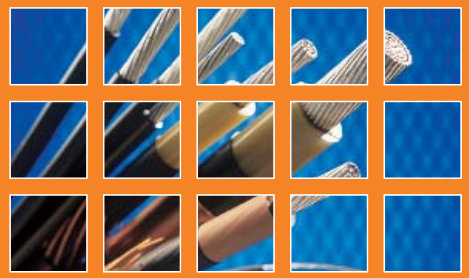
PRYSMIAN CABLES & SYSTEMS

5kV NONSHIELDED 3/C XLPE

TECK90 Risertek®



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Description

Three copper conductors, each with a semiconducting conductor shield, high dielectric strength VOLTALENE® TRXLPE insulation, fully filled assembly with a bare copper ground in each interstice, binder tape, heavy ribbed inner PVC jacket, galvanised steel interlocking armour (GSIA), and an overall PVC Jacket.

Specifications		Ratings
CSA	CSA C22.2 No. 131	FT4 -40°C Sunlight Resistant AG14
CSA	CSA C22.2 No. 174	HL
IEEE	IEEE 383 Flame Test	
ICEA	ICEA T-29-520	210,000 Btu Vertical Flame Test
ICEA	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

- Three soft drawn, bare, Class B compact or compressed stranded copper conductors 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.

Assembly

- Three conductors are twisted together with three soft drawn, bare copper bonding conductors, the core is fully filled and covered with a binder tape.

Inner Jacket

- Heavy black ribbed PVC jacket is extruded over the assembly to prevent slipping of the core when in a vertical position.

Armour

- Flexible galvanised steel interlocking armour (GSIA) 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
- Single bonding conductor
- Strandseal®
- Aluminum phase conductor

Installations

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

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

Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (mm) (A)	Insulation Diameter (mm) (B)	Inner Jacket Diameter (mm) (C)	Armour Diameter (mm) (D)	Jacket Diameter (mm) (E)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps) 90°C
5kV Copper Three Conductor										
Q3268ØC	4 AWG CU	90	5.41	11.20	34.94	36.72	41.29	2726	305	105
Q3468ØC	2 AWG CU	90	6.81	12.60	38.31	40.09	46.19	3485	331	140
Q3668ØC	1 AWG CU	90	7.59	13.39	40.01	41.79	47.89	3850	356	160
Q3868ØC	1/0 AWG CU	90	8.59	14.38	42.15	43.93	50.03	4310	356	185
Q3968ØC	2/0 AWG CU	90	9.60	15.39	44.35	46.13	52.22	4853	381	215
Q3A68ØC	3/0 AWG CU	90	10.82	16.61	46.98	49.52	55.62	5995	407	250
Q3B68ØC	4/0 AWG CU	90	12.14	17.93	49.99	52.53	58.62	6847	432	285
Q3C68ØC	250 MCM CU	90	13.28	19.28	54.42	56.96	63.05	7873	458	320
Q3D68ØC	350 MCM CU	90	15.72	21.72	59.68	62.22	68.32	9767	483	395
Q3E68ØC	500 MCM CU	90	18.77	24.77	66.27	68.81	76.53	12703	559	485
Q3F68ØC	750 MCM CU	90	23.11	29.31	76.09	78.63	86.35	17173	610	615
Q3G68ØC	1000 MCM CU	90	26.92	33.12	89.14	90.57	98.29	22069	712	705

Information Subject to Change without Notice.

PRODUCT NOTES:

▲ 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: Single three-conductor cable, spaced one cable diameter (minimum), 90°C conductor temperature, and 40°C ambient temperature.

Inner jacket diameter is measured over the ribs.

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