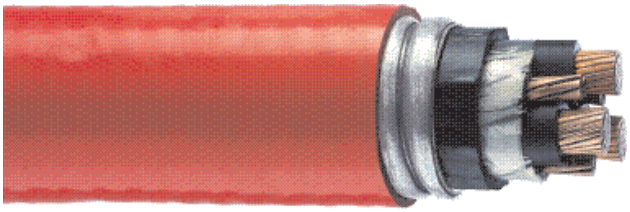
A brand of the Prysmian Group

5kV NONSHIELDED 3/C XLPE TECK90 Risertek®

Medium Voltage Commercial & Industrial Cables



Applications

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

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

Options

- Super smooth conductor shield
- Colored outer jacket
- Single bonding conductor
- Strandseal®
- Aluminum phase conductor

Design Parameters

CONDUCTOR: Three soft drawn, bare, Class B compact or compressed stranded copper conductors per ASTM.

CONDUCTOR SHIELD: Extruded thermosetting semi-conducting shield which is free stripping from the conductor and bonded to the insulation.

INSULATION: High dielectric strength tree-retardant crosslinkedpolyethylene (TRXLPE) VOLTALENE® insulation, exhibitingan 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.

Installation

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

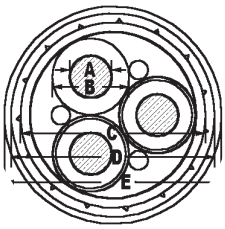
Prysmian Group
700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | www.prysmianusa.com
137 Commerce Drive | Johnstown, Ontario K0E 1T1 | www.prysmiancanada.com

B218 2014-01-15

A brand of the Prysmian Group

5kV NONSHIELDED 3/C XLPE TECK90 Risertek®

Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (mm)	Insulation Diameter (mm)	Inner Jacket Diameter (mm)	Armour Diameter (mm)	Jacket Diameter (mm)	Cable Weight (kg/km)	Minimum Bending Radius (mm)	†Ampacity (Amps)	††Maximum Vertical Pull Length (m)
			(A)	(B)	(C)	(D)	(E)			90ºC	
5kV Copper Three Conductor											
Q32680C	4 AWG CU	90	5.41	11.20	34.94	36.72	41.29	2726	305	105	56
Q34680C	2 AWG CU	90	6.81	12.60	38.31	40.09	46.19	3485	331	140	70
Q36680C	1 AWG CU	90	7.59	13.39	40.01	41.79	47.89	3850	356	160	80
Q38680C	1/0 AWG CU	90	8.59	14.38	42.15	43.93	50.03	4310	356	185	90
Q39680C	2/0 AWG CU	90	9.60	15.39	44.35	46.13	52.22	4853	381	215	100
Q3A680C	3/0 AWG CU	90	10.82	16.61	46.98	49.52	55.62	5995	407	250	103
Q3B680C	4/0 AWG CU	90	12.14	17.93	49.99	52.53	58.62	6847	432	285	113
Q3C680C	250 MCM CU	90	13.28	19.28	54.42	56.96	63.05	7873	458	320	116
Q3D680C	350 MCM CU	90	15.72	21.72	59.68	62.22	68.32	9767	483	395	131
Q3E680C	500 MCM CU	90	18.77	24.77	66.27	68.81	76.53	12703	559	485	144
Q3F680C	750 MCM CU	90	23.11	29.31	76.09	78.63	86.35	17173	610	615	160
Q3G680C	1000 MCM CU	90	26.92	33.12	89.14	90.57	98.29	22069	712	705	166

PRODUCT NOTES:

[S] 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:

NEC 2011 Table 310.60(C)(71) and 392.80(B)(1)b)

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.

††Per CSA C68.10 D.2.2.2

Prysmian Group
700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | www.prysmianusa.com
137 Commerce Drive | Johnstown, Ontario K0E 1T1 | www.prysmiancanada.com

B218 2014-01-15