

# Vector Service Cable



## 0.6/1kV Single Core

XLPE Insulated, PVC Sheathed Cable

Description: 0.6/1kV CU/XLPE/PVC ASNZS5000.1



**Application:** This cable can be used for mains power supply in switchboards and underground residential distribution services. It can be installed in trenches, cable duct and cable trunking.

**Voltage Rating:** 0.6/1kV

**Construction:** Plain Annealed Copper, Circular

Compacted. Class 2, AS/NZS1125

**Insulation:** XLPE (X-90), 2 Core - Red & Black, 4 Core – Red, Black, White and Blue

**Outer Sheath:** Extruded Polyvinyl Chloride Compound

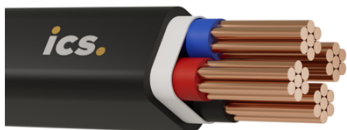
(PVC/SV-90), Colour - Black

**Bending Radius:** 16mm – 6D, 25mm – 9D

## 2 Core Vector

Part Number	No of cores and nominal cross section area [mm]	Nominal Thickness of XLPE insulation [mm]	Thickness of PVC Outer sheath	Overall diameter App.	Maximum wire OD	Diameter of Conductor	Net weight	D. C. resistance of conductor 20°C (Ω/km)
	No*Section	Phase core	[mm]	[mm]	[mm]	[mm]	[kg/m]	Voltage withstand test(kV)-3.5
216VEC	2*16	1.5	1.8	11.5 x 20	1.7	5.1	0.52	1.15
225VEC	2*25	1.7	1.8	13.2 x 23.3	2.12	6.36	0.743	0.727
235VEC	2*35	2.48	1.8	14.2 x 25.4	2.12	7.46	2.10	0.524

## 4 Core Vector



Part Number	No of cores and nominal cross section area [mm]	Nominal Thickness of XLPE insulation [mm]	Thickness Of PVC Outer sheath	Overall diameter App.	Maximum wire OD	Diameter of Conductor	Net weight	D. C. resistance of conductor 20°C (Ω/km)
	No*Section	Phase core	[mm]	[mm]	[mm]	[mm]	[kg/m]	Voltage withstand test(kV)-3.5
416VEC	4*16	1.5	1.8	24.2	1.7	5.1	0.885	1.15
425VEC	4*25	1.7	1.8	28.2	2.12	6.36	1.325	0.727

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of ICSLTD is indicative only and shall not be binding on ICSLTD or be treated as constituting a representation on the part of ICSLTD.

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## 0.6/1kV Single Core

Description: 0.6/1kV 2 & 4 Core CU/XLPE/PVC  
ASNZS5000.1

### Current Carrying Capacity

#### Three and Four Core X-90

Reference Ambient Temperature: 30°C in air and 15°C in ground

Conductor Size	Unenclosed Spaced	Unenclosed Touching	Unenclosed Exposed to Sun	Enclosed Touching	Buried Direct	Underground wiring enclosure
[mm]						
16	96	89	77	74	118	85
25	128	119	103	98	153	110
35	158	149	127	122	184	136

Note: Please be advised that the information contained in this table, along with the typical installation conditions applicable in New Zealand, is sourced from AS/NZS 3008.1.2:2017. This content has been utilised with the express permission of Standards New Zealand under Copyright Licence SZ00025278 and has either been reproduced or adapted. For comprehensive details, we recommend consulting the entire Standard, which can be obtained for purchase directly from Standards New Zealand via [www.standards.co.nz](http://www.standards.co.nz).

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