

3 Core Copper NS



0.6/1kV Single Core

XLPE / PVC Insulated, PVC Sheathed Cable

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



Application: This cable can be used for mains power supply in switchboards and power stations. It can be installed in trenches, cable duct and cable trunking.

Voltage Rating: 0.6/1KV

Construction: Plain Annealed Copper, Circular

Non-Compacted. Class 2, AS/NZS1125

Insulation: PVC 2.5mm – 10mm, XLPE 16mm and over (XF90) ASNZS3808

Outer Sheath: Extruded Polyvinyl Chloride Compound (PVC/SV-90), Colour - Black

Sheath Option: HFS (Halogen Free) – LSZH

Bending Radius: 12 x OD

Part Number	No of cores and nominal cross section area [mm]	Nominal Thickness of insulation [mm]	Thickness Of PVC Outer sheath	Overall diameter App.	Nominal wire OD	Diamete 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
32.5NS1.8S	3x2.5	0.8	1.8	13.8	0.67	2.01	0.274	7.410
32.5NS3.2S	3*2.5	0.8	3.2	16.6	0.67	2.01	0.375	7.410
34NS1.8S	3*4	1.0	1.8	15.9	0.85	2.55	0.370	4.610
34NS3.2S	3*4	1.0	3.2	18.7	0.85	2.55	0.485	4.610
36NS1.8S	3*6	1.0	1.8	17.1	1.04	3.12	0.454	3.080
36NS3.2S	3*6	1.0	3.2	19.9	1.04	3.12	0.485	3.080
310NS1.8S	3*10	1.0	1.8	19.4	1.35	4.05	0.637	1.830
310NS3.2S	3*10	1.0	3.2	22.2	1.35	4.05	0.774	1.830
316XLNS	3*16	0.7	3.2	23.4	1.70	5.10	0.968	1.150
325XLNS	3*25	0.9	3.2	27.4	2.12	6.36	1.394	0.727
335XLNS	3*35	0.9	3.2	30.3	2.52	7.56	1.823	0.524

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.

Core Copper NS



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]						
10	73	67	58	57	67	66
16	96	89	77	74	118	85
25	128	119	103	98	153	110
35	158	149	127	122	184	136
50	200	187	154	150	218	166
70	253	235	195	190	269	207
95	303	282	239	222	323	242
120	360	333	276	266	368	285
150	413	383	314	301	412	321
185	471	436	360	345	465	363
240	562	519	424	417	539	430
300	642	593	483	-	607	484
400	761	702	552	-	685	575
500	873	803	623	-	764	644

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.

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