

1 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 XLPE insulation [mm]	Thickness Of PVC Outer sheath	Overall diameter App.	Nominal 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
110NS1.8S	1*10	1.1	1.8	12.4	1.35	4.05	0.308	1.830
110NS3.2S	1*10	1.1	3.2	15.2	1.35	4.05	0.400	1.830
116XLNS	1*16	1.2	3.2	16.3	1.70	5.10	0.511	1.150
125XLNS	1*25	1.4	3.2	18.2	2.12	6.36	0.716	0.727
135XLNS	1*35	1.6	3.2	19.8	2.52	7.56	0.922	0.524
150XLNS	1*50	1.7	3.2	22.0	1.78	8.90	1.182	0.387
12.52NS1.8S	1*2.5	0.8	1.8	9.4	0.67	2.01	0.139	7.410
14NS1.8S	1*4	1.0	1.8	10.4	0.85	2.55	0.176	4.610
16NS1.8S	1*6	1.0	1.8	10.9	1.04	3.12	0.216	3.080

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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Current Carrying Capacity

Two Single core Sheathed

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

Conductor Size	Unenclosed Spaced	Unenclosed Spaced from surface	Unenclosed Touching	Enclosed Touching	Buried Direct	Underground wiring enclosure	Underground wiring enclosure
[mm]							
10	79	76	62	62	94	76	85
16	105	101	82	80	134	98	109
25	141	136	111	107	174	128	142
35	174	165	136	128	209	153	171
50	213	202	166	157	248	185	205
70	271	254	210	194	305	227	251
95	336	315	262	242	365	277	306
120	392	366	304	276	416	316	348
150	450	418	351	321	466	362	389
185	523	483	408	365	528	410	449
240	626	576	488	434	612	482	519
300	725	663	564	.	691	546	601
400	848	771	658	.	784	633	683
500	988	889	762	.	886	714	793
630	1156	1023	878	.	994	825	898

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