

1 Core Aluminium Neutral Screen



0.6/1kV Single Core

XLPE Insulated, PVC Sheathed Cable

Description: 0.6/1kV AL/XLPE/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: Aluminium 1350, Compacted Circular Class 2 (70mm -120mm)

Insulation: XLPE (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.	Maximum wire OD	Diameter of Conductor	Net weight	D. C. resistance of conductor 20° (Ω/km)
	No*Section	Phase core	[mm]	[mm]	[mm]	[mm]	[kg/m]	Voltage withstand test(kV)-3.5
170ALNS	1*70	1.1	3.2	22.7	2.52	10	0.922	0.443
195ALNS	1*95	1.1	3.2	25	2.56	11.6	1.272	0.32
1120ALNS	1*120	1.2	3.2	27.3	2.56	13	1.587	0.253
1185ALNS	1*185	1.6	3.2	32.2	2.56	16.2	2.062	0.164
1240ALNS	1*240	1.7	3.2	35.2	2.56	18.4	2.615	0.125
1300ALNS	1*300	1.8	3.2	37.7	2.56	20.6	3.145	0.1

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Current Carrying Capacity

Two single core

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	-	-	-	-	-	-	-
16	96	92	74	72	114	83	93
25	129	123	100	96	149	109	122
35	158	151	122	116	179	131	146
50	195	184	150	142	212	157	175
70	249	233	191	175	260	194	214
95	308	288	238	218	311	236	256
120	361	336	278	249	355	270	297
150	415	385	320	281	398	303	333
185	483	447	374	331	453	352	384
240	580	534	449	396	526	415	446
300	673	618	520	.	595	471	516
400	795	726	615	.	683	552	592
500	935	849	722	.	780	631	676
630	1103	994	849	.	891	744	792

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