

3 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)

Compacted Sector-shaped stranded 120mm-400mm, AS/NZS1125

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.	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
335ALNS	1*35	0.9	3.2	28.4	2.6	7.00	1.075	0.868
350ALNS	1*50	1.0	3.2	32.2	2.52	8.40	1.35	0.641
370ALNS	1*70	1.1	3.2	36.5	2.52	10.00	1.716	0.443
395ALNS	1*95	1.1	3.2	40.1	2.56	11.60	2.175	0.320
3120ALNS	1*120	1.2	3.2	38.4	2.52	11.25	2.672	0.253
3185ALNS	1*185	1.6	3.2	46.3	2.52	13.97	3.605	0.164
3240ALNS	1*240	1.7	3.2	51.8	2.52	16.21	4.553	0.125
3300ALNS	1*300	1.8	3.2	56.0	2.52	17.97	5.545	0.100

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Current Carrying Capacity

Three Core and Four core

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	75	70	59	58	91	67
25	102	95	80	78	119	89
35	125	117	98	97	142	108
50	154	143	120	116	170	128
70	196	182	151	147	209	161
95	242	224	185	178	250	194
120	282	262	215	211	286	225
150	322	299	244	238	320	253
185	374	347	281	276	364	291
240	446	413	332	333	423	345
300	514	475	380	-	477	391
400	601	554	440	-	546	446
500	692	637	503	-	617	519

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