

# Aluminium Stranded



## 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 Stranded

Class 2, ASNZS1125

**Insulation:** XLPE (X-90) Natural ASNZS3808

**Outer Sheath:** Extruded Polyvinyl Chloride Compound, PVC (5V-90) - Black

**Sheath Option:** HFS (Halogen Free) – LSZH

**Bending Radius:** 6 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.	Min. Number of Wires in Conductor	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
150ALXL	1*50	1.00	1.40	13.40	6	8.40	0.263	0.641
170ALXL	1*70	1.10	1.40	15.20	12	10.00	0.382	0.443
195ALXL	1*95	1.10	1.50	17.00	15	11.60	0.484	0.32
1120ALXL	1*120	1.20	1.50	18.60	15	13.00	0.589	0.253
1150ALXL	1*150	1.40	1.60	20.80	15	14.60	0.728	0.206
1185ALXL	1*185	1.60	1.60	22.80	30	16.20	0.877	0.164
1240ALXL	1*240	1.70	1.70	25.40	30	18.40	1.115	0.125
1300ALXL	1*300	1.80	1.80	28.00	30	20.60	1.360	0.1
1400ALXL	1*400	2.00	1.90	31.80	53	23.80	1.749	0.078
1500ALXL	1*500	2.20	2.00	35.20	53	26.60	2.164	0.061
1630ALXL	1*630	2.40	2.20	39.40	53	30.0	2.726	0.047

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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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