



Aluminum Cables

Applications: For mains, sub-mains and sub circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical stress.

Standard: AS/NZS 5000.1 and AS/NZS3808

Voltage: 0.6/1kV

Conductor: Plain Aluminum

Insulation: X-90

Sheath: 5V-90(Orange, Black)



Core x cross-section mm ²	Conductor No.	Nominal insulation thickness mm	Nominal sheath thickness mm	Approx. overall diameter mm	Approx. weight kg/km	Product code
1×25	7	0.9	1.4	10.7	144	AL1C0250
1×35	7	0.9	1.4	11.7	178	AL1C0350
1×50	19	1.0	1.4	13.0	224	AL1C0500
1×70	19	1.1	1.4	14.8	298	AL1C0700
1×95	19	1.1	1.5	16.9	392	AL1C0950
1×120	37	1.2	1.5	18.6	478	AL1C1200
1×150	37	1.4	1.6	20.5	583	AL1C1500
1×185	37	1.6	1.6	22.8	716	AL1C1850
1×240	61	1.7	1.7	25.7	914	AL1C2400
1×300	61	1.8	1.8	28.2	1118	AL1C3000
1×400	61	2.0	1.9	31.5	1410	AL1C4000
1×500	61	2.2	2.0	35.4	1781	AL1C5000

Core x cross-section mm ²	Min. Bending Radius mm	Current Rating (A)		Electrical Characteristics
		underground (flat formation)	in the air (flat formation)	Maximum DC Resistance 20°C Ω/km
1×25	214	125	120	1.2
1×35	234	150	150	0.868
1×50	260	175	180	0.641
1×70	296	215	230	0.443
1×95	338	260	285	0.32
1×120	372	295	330	0.253
1×150	410	335	380	0.206
1×185	456	380	445	0.164
1×240	514	445	530	0.125
1×300	564	505	615	0.1
1×400	630	575	720	0.0778
1×500	708	665	850	0.0605

in the air: when working temperature is 90°C and the ambient temperature is 40°C.

underground: when soil thermal resistivity is 1.0K·m/W ,working temperature is 90°C and the ambient temperature is 25°C.