

6381 LSZH Cable

Eland Product Group **A1F LS**



Application

For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment. Suitable for D.C. power supplies on Telecom equipment and power applications where flexibility is required. The cables produce no corrosive gases when burnt which is important where electronic equipment is installed.

Technical Data

Conductor

Class 5 flexible annealed plain copper conductors to BS EN 60228:2005 (previously BS6360)

Insulation

XLPE (Cross-Linked Polyethylene)

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour (Insulation Colour)

Blue (Blue), Grey (Grey), Green/Yellow (Green/Yellow), Brown (Brown), Special colours to order

Voltage Rating

600/1000V

Temperature Rating

0°C to 90°C

Minimum Bending Radius

Up to 50mm²: 3 x overall diameter
Above 70mm²: 4 x overall diameter

Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A1FY*/0015LS	1 x 1.5	0.9	0.8	5.2	42
A1FY*/0025LS	1 x 2.5	0.9	0.8	5.7	54
A1FY*/004LS	1 x 4.0	1.0	0.9	6.6	77
A1FY*/006LS	1 x 6.0	1.1	0.9	7.3	102
A1FY*/010LS	1 x 10.0	1.2	1.0	8.6	160
A1FY*/016LS	1 x 16.0	1.2	1.0	9.6	210
A1FY*/025LS	1 x 25.0	1.4	1.1	11.5	320
A1FY*/035LS	1 x 35.0	1.4	1.1	12.8	420
A1FY*/050LS	1 x 50.0	1.4	1.4	14.9	590
A1FY*/070LS	1 x 70.0	1.4	1.4	17.2	810
A1FY*/095LS	1 x 95.0	1.6	1.5	18.6	1020
A1FY*/120LS	1 x 120.0	1.6	1.8	20.8	1285
A1FY*/150LS	1 x 150.0	1.8	1.8	23.1	1610
A1FY*/185LS	1 x 185.0	2.0	1.8	25.3	1940
A1FY*/240LS	1 x 240.0	2.2	1.8	27.8	2480
A1FY*/300LS	1 x 300.0	2.4	2.0	31.2	3050
A1FY*/400LS	1 x 400.0	2.6	2.1	35.3	4035
A1FY*/500LS	1 x 500.0	2.8	2.2	38.8	4970
A1FY*/630LS	1 x 630.0	2.8	2.4	43.8	6510

* Eland Part numbers shown above designate the sheath colour (*). For each colour substitute * for a colour code as; Blue: BL/BL, Grey: GR/GR, Green/Yellow: G/Y, Brown: BR/BR

Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

1	2	3
Nominal Cross Sectional Area mm ²	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C Plain Wires ohms/Km
1.5	0.26	13.3000
2.5	0.26	7.9800
4.0	0.31	4.9500
6.0	0.31	3.3000
10.0	0.41	1.9100
16.0	0.41	1.2100
25.0	0.41	0.7800
35.0	0.41	0.5540
50.0	0.41	0.3860
70.0	0.51	0.2720
95.0	0.51	0.2060
120.0	0.51	0.1610
150.0	0.51	0.1290
185.0	0.51	0.1060
240.0	0.51	0.0801
300.0	0.51	0.0641
400.0	0.51	0.0486
500.0	0.61	0.0384
630.0	0.61	0.0287

Table in accordance with BS EN 60228:2005 (previously BS6360)

Electrical Characteristics

Current Carrying Capacity (amperes) and Resistance Values (ohms per kilometre)

Nominal Cross Sectional Area mm ²	Voltage Drop mV/A/m	Current Rating in Earth Amps	Current Rating in Air Amps
1.5	26.6000	27	41
2.5	15.9600	35	55
4.0	9.9000	47	71
6.0	6.6000	59	90
10.0	3.8200	81	124
16.0	2.4200	107	160
25.0	1.5600	144	208
35.0	1.1080	176	250
50.0	0.7720	214	296
70.0	0.5440	270	365
95.0	0.4120	334	438
120.0	0.3220	389	501
150.0	0.2580	446	563
185.0	0.2120	516	639
240.0	0.1602	618	716
300.0	0.1282	711	845
400.0	0.0972	843	975
500.0	0.0768	994	1125
630.0	0.0574	1102	1230

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.