

6381Y Cable

Eland Product Group A1F

Application

Suitable for D.C. power supplies on Telecom equipment and power applications where flexibility is required.

Standards

Generally to BS6004

Conductor

Flexible class 5 copper conductors to BS6360

Insulation

PVC (Type TI 1 to BS7655)

Sheath

PVC (Type TM1 to BS7655) with oxygen index > 30%

Flame retardant to BS4066 Part 1

Meets requirements for flammability as required by BT specification M231

Colour

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

Voltage Rating

450/750V, 10-35mm²
600/1000V, 50mm² +

Temperature Rating

0 to +70°C

Minimum Bending Radius

Up to 50mm²:
3 x overall diameter

Above 70mm²:
4 x overall diameter



Dimensions

Eland Part Number	Nominal Cross Sectional Area mm ²	Diameter of Strands Max. mm	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A1FY*006	6.0	0.30	1.1	0.9	7.3	102
A1FY*010	10.0	0.41	1.2	1.0	8.6	160
A1FY*016	16.0	0.41	1.2	1.0	9.6	210
A1FY*025	25.0	0.41	1.4	1.1	11.5	320
A1FY*035	35.0	0.41	1.4	1.1	12.8	420
A1FY*050	50.0	0.41	1.4	1.4	14.9	590
A1FY*070	70.0	0.51	1.4	1.4	17.2	810
A1FY*095	95.0	0.51	1.6	1.5	18.6	1020
A1FY*120	120.0	0.51	1.6	1.8	20.8	1285
A1FY*150	150.0	0.51	1.8	1.8	23.1	1610
A1FY*185	185.0	0.51	2.0	1.8	25.3	1940
A1FY*240	240.0	0.51	2.2	1.8	27.8	2480
A1FY*300	300.0	0.51	2.4	2.0	31.2	3050
A1FY*400	400.0	0.51	2.6	2.1	35.3	4035
A1FY*500	500.0	0.61	2.8	2.2	38.8	4970
A1FY*630	630.0	0.61	2.8	2.4	43.8	6510

*BK/BK - Black, BR/BR - Brown, GY - Green/Yellow, BL/BL - Blue, GR/GR - Grey

Electrical Characteristics

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

Nominal Cross Sectional Area mm ²	Electrical Resistance at 20°C Max. ohms/Km	Voltage Drop mV/A/m	Current Rating in Earth Amps	Current Rating in Air Amps
6.0	3.3000	6.6000	90	59
10.0	1.9100	3.8200	124	81
16.0	1.2100	2.4200	160	107
25.0	0.7800	1.5600	208	144
35.0	0.5540	1.1080	250	176
50.0	0.3860	0.7720	296	214
70.0	0.2720	0.5440	365	270
95.0	0.2060	0.4120	438	334
120.0	0.1610	0.3220	501	389
150.0	0.1290	0.2580	563	446
185.0	0.1060	0.2120	639	516
240.0	0.0801	0.1602	716	618
300.0	0.0641	0.1282	845	711
400.0	0.0486	0.0972	975	843
500.0	0.0384	0.0768	1125	994
630.0	0.0287	0.0574	1230	1102