

YY LSZH Control Flexible Cable

Eland Product Group **A5L**



Application

For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment. Used as interconnecting cable for measuring, controlling or regulation in control equipment for assembly and production lines, conveyors and for computer units. Suitable for fixed installations or for flexible use in conditions of light mechanical stress. Can be used outdoors when protected, and in dry or moist conditions indoors.

Standards

Generally to BS6500, VDE0250, IEC 60332-3, IEC 60754-1

Technical Data

Conductor

Class 5 flexible plain copper conductors to BS EN 60228:2005 (previously BS6360), DIN VDE 0295:1995-06 or IEC 60228

Insulation

XLPE (Cross-Linked Polyethylene)

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

Grey

Voltage Rating

300/500V

Temperature Rating

Fixed: -35°C to +85°C
Flexing: -5°C to +85°C

Minimum Bending Radius

10 x overall diameter

Core Identification

Black with White numbers
(3 cores and above includes Green/Yellow)
Coloured cores available

Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/ Km	FCGA2/A2P Gland Brass/Plastic
YY LSZH Control Flexible Cable - 2 Cores						
A5L020005	2 x 0.50	0.5	0.8	5.20	37.24	-/20S
A5L020075*	2 x 0.75	0.5	0.8	5.70	45.55	-/20S
A5L02010	2 x 1.00	0.5	0.8	5.90	52.00	-/20S
A5L02015	2 x 1.50	0.6	0.9	7.10	74.36	-/20S
A5L02025	2 x 2.50	0.7	0.9	8.30	107.55	20S/20
YY LSZH Control Flexible Cable - 3 Cores						
A5L030005	3 x 0.50	0.5	0.8	5.50	43.54	-/20S
A5L030075*	3 x 0.75	0.5	0.8	6.04	53.67	-/20S
A5L03010	3 x 1.00	0.5	0.8	6.26	62.35	-/20S
A5L03015*	3 x 1.50	0.6	0.9	7.54	89.01	-/20S
A5L03025*	3 x 2.50	0.7	1.0	9.04	135.28	20S/20
A5L03040*	3 x 4.00	0.7	1.1	10.40	191.20	20S/20
A5L03060*	3 x 6.00	0.7	1.2	11.90	266.10	20/25
A5L0310	3 x 10.00	0.8	1.3	14.70	431.80	25/25
A5L0316	3 x 16.00	0.9	1.5	17.70	646.10	25/32

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/ Km	FCGA2/A2P Gland
YY LSZH Control Flexible Cable - 4 Cores						
A5L040005	4 x 0.50	0.5	0.8	5.98	52.47	-/20S
A5L040075	4 x 0.75	0.5	0.8	6.58	65.08	-/20S
A5L04010*	4 x 1.00	0.5	0.9	7.02	79.61	-/20S
A5L04015	4 x 1.50	0.6	0.9	8.23	108.93	20S/20
A5L04025	4 x 2.50	0.7	1.0	9.87	166.70	20S/20
A5L04040*	4 x 4.00	0.7	1.1	11.40	237.80	20/20S
A5L04060*	4 x 6.00	0.7	1.3	13.30	340.50	25/25
A5L0410*	4 x 10.00	0.8	1.5	16.60	560.60	25/25
A5L0416	4 x 16.00	0.9	1.5	19.70	832.40	25/32
YY LSZH Control Flexible Cable - 5 Cores						
A5L050005	5 x 0.50	0.5	0.8	6.53	63.13	-/20S
A5L050075	5 x 0.75	0.5	0.9	7.41	82.18	-/20S
A5L05010	5 x 1.00	0.5	0.9	7.68	96.22	-/20S
A5L05015*	5 x 1.50	0.6	1.0	9.23	136.75	20S/20
A5L05025*	5 x 2.50	0.7	1.1	11.05	208.54	20S/20
A5L05040*	5 x 4.00	0.7	1.3	12.90	302.00	20/20L
A5L05060*	5 x 6.00	0.7	1.4	14.80	423.70	25/25
A5L0510*	5 x 10.00	0.8	1.5	18.20	684.90	25/32
A5L0516	5 x 16.00	0.9	1.5	21.70	1023.40	32/32
A5L0525	5 x 25.00	1.1	1.7	26.70	1509.20	32/40
YY LSZH Control Flexible Cable - 7 Cores						
A5L070005	7 x 0.50	0.5	0.9	7.30	80.69	-/20S
A5L070075	7 x 0.75	0.5	0.9	8.05	100.68	20S/20
A5L07010	7 x 1.00	0.5	1.0	8.55	123.46	20S/20
A5L07015	7 x 1.50	0.6	1.0	10.05	169.67	20S/20
A5L07025	7 x 2.50	0.7	1.2	12.25	267.06	20/25
YY LSZH Control Flexible Cable - 12 Cores						
A5L120005	12 x 0.50	0.5	1.0	9.70	141.71	20S/20
A5L120075	12 x 0.75	0.5	1.1	10.94	183.03	20S/20
A5L12010	12 x 1.00	0.5	1.1	11.36	216.13	20S/20
A5L12015	12 x 1.50	0.6	1.1	13.00	285.88	20/25
A5L12025	12 x 2.50	0.7	1.4	16.54	477.26	25/25
YY LSZH Control Flexible Cable - 18 Cores						
A5L180005	18 x 0.50	0.5	1.1	11.50	201.75	20S/20
A5L18075	18 x 0.75	0.5	1.2	12.95	260.18	20/25
A5L18010	18 x 1.00	0.5	1.3	13.65	315.49	20/25
A5L18015	18 x 1.50	0.6	1.3	15.61	417.15	25/25
A5L18025	18 x 2.50	0.7	1.6	19.75	691.76	25/25
YY LSZH Control Flexible Cable - 25 Cores						
A5L250005	25 x 0.50	0.5	1.3	13.80	288.33	25/25
A5L250075	25 x 0.75	0.5	1.4	15.50	370.17	25/25
A5L25010	25 x 1.00	0.5	1.4	16.10	438.69	25/25
A5L25015	25 x 1.50	0.6	1.6	19.50	629.40	25/25
A5L25025	25 x 2.50	0.7	1.8	23.50	973.38	32/32

* These cables are available with colour coded cores

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
0.50	0.21	39.0000
0.75	0.21	26.0000
1.00	0.21	19.5000
1.50	0.26	13.3000
2.50	0.26	7.9800
4.00	0.31	4.9500
6.00	0.31	3.3000
10.00	0.41	1.9100
16.00	0.41	1.2100
25.00	0.41	0.7800
35.00	0.41	0.5540
50.00	0.41	0.3860
70.00	0.51	0.2720
95.00	0.51	0.2060
120.00	0.51	0.1610
150.00	0.51	0.1290

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

Electrical Characteristics

Current Carrying Capacity (amperes) at 30°C

Nominal Cross Sectional Area mm ²	Current Rating Amps
0.50	7
0.75	12
1.00	15
1.50	18
2.50	26
4.00	34
6.00	44
10.00	61
16.00	82
25.00	108
35.00	135
50.00	168
70.00	207
95.00	250
120.00	292
150.00	335

De-rating Factors

Multi-Conductor cables with cross sectional area up to 10mm²

No. of Cores	De-rating Factor
5	0.75
7	0.65
10	0.55
14	0.50
19	0.45
24	0.40
40	0.35
61	0.30

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.