

YY Control Flexible Cable

Eland Product Group **A5Y**

Application

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

Conductor

Class 5 flexible plain copper conductors to BS EN 60228:2005 (previously BS6360), VDE0295

Insulation

PVC (Polyvinyl Chloride) Type YI2

Sheath

PVC (Polyvinyl Chloride) Type YM2

Sheath Colour

Grey

Voltage Rating

300/500V

Temperature Rating

Fixed: -35°C to + 70°C

Flexing: -5°C to + 70°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	Nominal Overall Diameter mm	Nominal Weight kg/ Km	FCGA2/A2P Gland
YY Control Flexible Cable - 2 Cores				
A5Y020050	2 x 0.50	4.7	32	-/20S
A5Y020075	2 x 0.75	5.1	39	-/20S
A5Y02010	2 x 1.00	5.3	49	-/20S
A5Y02015	2 x 1.50	6.2	61	-/20S
A5Y02025	2 x 2.50	7.3	92	-/20
YY Control Flexible Cable - 3 Cores				
A5Y0300050	3 x 0.50	5.1	39	-/20S
A5Y030075	3 x 0.75	5.4	50	-/20S
A5Y03010	3 x 1.00	5.6	60	-/20S
A5Y03015	3 x 1.50	6.5	79	-/20S
A5Y03025	3 x 2.50	7.7	119	-/20
A5Y03040	3 x 4.00	9.3	176	20S/20
A5Y03060	3 x 6.00	11.0	255	20S/20
A5Y0310	3 x 10.00	14.0	411	25/25
A5Y0316	3 x 16.00	18.2	653	25/32
YY Control Flexible Cable - 4 Cores				
A5Y0400050	4 x 0.50	5.4	46	-/20S
A5Y040075	4 x 0.75	5.9	59	-/20S
A5Y04010	4 x 1.00	6.5	69	-/20S
A5Y04015	4 x 1.50	7.4	92	-/20
A5Y04025	4 x 2.50	8.5	148	20S/20
A5Y04040	4 x 4.00	10.2	219	20S/20
A5Y04060	4 x 6.00	12.3	323	20/25
A5Y0410	4 x 10.00	15.0	513	25/25
A5Y0416	4 x 16.00	19.2	844	25/32
A5Y0425	4 x 25.00	23.0	1252	32/32
YY Control Flexible Cable - 5 Cores				
A5Y0500050	5 x 0.50	6.2	57	-/20S
A5Y050075	5 x 0.75	6.7	68	-/20S
A5Y05010	5 x 1.00	6.9	83	-/20S
A5Y05015	5 x 1.50	7.9	109	-/20
A5Y05025	5 x 2.50	9.7	180	20S/20
A5Y05040	5 x 4.00	11.6	269	20/20
A5Y05060	5 x 6.00	13.5	391	25/25
A5Y0510	5 x 10.00	17.1	650	25/25
A5Y0516	5 x 16.00	21.3	1012	32/32
A5Y0525	5 x 25.00	25.8	1548	32/40
A5Y0535	5 x 35.00	29.5	2029	40/40
YY Control Flexible Cable - 6 Cores				
A5Y060075	6 x 0.75	6.9	81	-/20S
A5Y06010	6 x 1.00	7.0	101	-/20
YY Control Flexible Cable - 7 Cores				
A5Y070050	7 x 0.50	6.6	70	-/20S
A5Y070075	7 x 0.75	7.1	90	-/20
A5Y07010	7 x 1.00	7.5	104	-/20
A5Y07015	7 x 1.50	9.0	147	20S/20
A5Y07025	7 x 2.50	10.1	232	20S/20
YY Control Flexible Cable - 8 Cores				
A5Y080075	8 x 0.75	7.4	100	-/20
A5Y08010	8 x 1.00	8.0	120	20S/20
A5Y08015	8 x 1.50	9.5	169	20S/20

Datasheet Continues »

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Overall Diameter mm	Nominal Weight kg/ Km	FCGAZ/AZP Gland
YY Control Flexible Cable - 12 Cores				
A5Y12050	12 x 0.50	8.6	110	20S/20
A5Y12075	12 x 0.75	9.4	146	20S/20
A5Y12010	12 x 1.00	9.9	174	20S/20
A5Y12015	12 x 1.50	11.6	237	20/20
A5Y12025	12 x 2.50	13.9	377	25/25
YY Control Flexible Cable - 18 Cores				
A5Y18075	18 x 0.75	11.1	211	20S/20
A5Y18010	18 x 1.00	11.7	252	20S/20
A5Y18015	18 x 1.50	13.7	347	25/25
A5Y18025	18 x 2.50	17.1	575	25/25
YY Control Flexible Cable - 25 Cores				
A5Y25075	25 x 0.75	13.4	289	25/25
A5Y25015	25 x 1.50	16.9	490	25/25
YY Control Flexible Cable - 34 Cores				
A5Y34010	34 x 1.00	16.3	477	25/25
YY Control Flexible Cable - 41 Cores				
A5Y41010	41 x 1.00	17.7	566	25/25
YY Control Flexible Cable - 42 Cores				
A5Y42075	42 x 0.75	16.0	461	25/25
YY Control Flexible Cable - 50 Cores				
A5Y50010	50 x 1.00	19.1	682	25/32
YY Control Flexible Cable - 61 Cores				
A5Y61075	61 x 0.75	19.8	673	32/32
YY Control Flexible Cable - 65 Cores				
A5Y650075	65 x 0.75	20.7	774	32/32

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

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

Datasheet Continues »

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

De-rating FactorsMulti-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