

CY Control Flexible Cable to BS6500

Eland Product Group **A5C****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 when temporarily moved, and in conditions of medium mechanical stress. Can be used outdoors when protected, and in dry or moist conditions indoors. These cables with copper screening are ideally suitable for interference free data and signal transmission in measuring and control technology.

Standards

Generally to BS6500, VDE0250

Conductor

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

Insulation

PVC (Polyvinyl Chloride) Type YI2

Separator

PETP (Polyethylene Terephthalate)

Screen

CY: TCWB (Tinned Copper Wire Braid)
 STCY*: Aluminium Foil and Braid

Sheath

PVC (Polyvinyl Chloride) Type YI2

Sheath Colour

Grey

Voltage Rating

300/500V

Temperature Rating

Fixed: -35°C to +70°C

Flexing: -15°C to +70°C

Minimum Bending Radius

10 x overall diameter

Core Identification

Black with White numbers
 (3 cores and above to include 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	FCGCXT Gland
CY Control Flexible Cable - 2 Cores				
A5C02005CY	2 x 0.50	5.4	45.0	20SS
A5C020075CY	2 x 0.75	6.0	54.0	20SS
A5C020075STCY*	2 x 0.75	5.4	47.4	20SS
A5C02010CY	2 x 1.00	6.2	60.0	20SS
A5C02010STCY*	2 x 1.00	5.9	57.4	20SS
A5C02015CY	2 x 1.50	6.8	70.0	20SS
A5C02015STCY*	2 x 1.50	6.6	74.4	20SS
A5C02025CY	2 x 2.50	8.0	104.0	20S
CY Control Flexible Cable - 3 Cores				
A5C03005CY	3 x 0.50	5.8	53.0	20SS
A5C030075CY	3 x 0.75	6.3	65.0	20SS
A5C030075STCY*	3 x 0.75	5.8	57.8	20SS
A5C03010CY	3 x 1.00	6.5	73.0	20SS
A5C03015CY	3 x 1.50	7.2	90.0	20S
A5C03015STCY*	3 x 1.50	7.5	100.1	20S
A5C03025CY	3 x 2.50	8.6	140.0	20S
CY Control Flexible Cable - 4 Cores				
A5C04005CY	4 x 0.50	6.3	63.0	20SS
A5C040075CY	4 x 0.75	6.8	77.0	20SS
A5C040075STCY*	4 x 0.75	6.5	73.6	20SS
A5C04010CY	4 x 1.00	7.0	89.0	20S
A5C04015CY	4 x 1.50	7.8	108.0	20S
A5C04015STCY*	4 x 1.50	8.2	123.3	20S
A5C04025CY	4 x 2.50	9.4	173.0	20S
CY Control Flexible Cable - 5 Cores				
A5C05005CY	5 x 0.50	6.7	76.0	20SS
A5C050075CY	5 x 0.75	7.3	91.0	20S
A5C05010CY	5 x 1.00	7.6	105.0	20S
A5C05015CY	5 x 1.50	8.4	125.0	20S
A5C05025CY	5 x 2.50	10.0	206.0	20S
CY Control Flexible Cable - 7 Cores				
A5C07010CY	7 x 1.00	8.4	139.0	20S
A5C07015CY	7 x 1.50	9.3	160.0	20S
A5C07025CY	7 x 2.50	10.8	267.0	20S
CY Control Flexible Cable - 12 Cores				
A5C12005CY	12 x 0.50	9.2	140.0	20S
A5C120075CY	12 x 0.75	10.1	177.0	20S
A5C12010CY	12 x 1.00	10.4	207.0	20S
A5C12015CY	12 x 1.50	11.8	279.0	20
CY Control Flexible Cable - 18 Cores				
A5C18005CY	18 x 0.50	10.2	179.0	20S
A5C180075CY	18 x 0.75	11.6	250.0	20
A5C18010CY	18 x 1.00	12.4	295.0	20
A5C18015CY	18 x 1.50	14.0	350.0	25

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

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

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