

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

No. of cores x nominal cross sectional area # x mm ²	Nominal overall diameter mm	Nominal weight kg/Km	FCGCXT Gland
YY Control flexible cable – 2 cores			
2 x 0.50	4.7	32	-/20S
2 x 0.75	5.1	39	-/20S
2 x 1.00	5.3	49	-/20S
2 x 1.50	6.2	61	-/20S
2 x 2.50	7.3	92	-/20
YY Control flexible cable – 3 cores			
3 x 0.50	5.1	39	-/20S
3 x 0.75	5.4	50	-/20S
3 x 1.00	5.6	60	-/20S
3 x 1.50	6.5	79	-/20S
3 x 2.50	7.7	119	-/20
3 x 4.00	9.3	176	20S/20
3 x 6.00	11.0	255	20S/20
3 x 10.00	14.0	411	25/25
3 x 16.00	18.2	653	25/32
YY Control flexible cable – 4 cores			
4 x 0.50	5.4	46	-/20S
4 x 0.75	5.9	59	-/20S
4 x 1.00	6.5	69	-/20S
4 x 1.50	7.4	92	-/20
4 x 2.50	8.5	148	20S/20
4 x 4.00	10.2	219	20S/20
4 x 6.00	12.3	323	20/25
4 x 10.00	15.0	513	25/25
4 x 16.00	19.2	844	25/32
4 x 25.00	23.0	1252	32/32
YY Control flexible cable – 5 cores			
5 x 0.50	6.2	57	-/20S
5 x 0.75	6.7	68	-/20S
5 x 1.00	6.9	83	-/20S
5 x 1.50	7.9	109	-/20
5 x 2.50	9.7	180	20S/20
5 x 4.00	11.6	269	20/20
5 x 6.00	13.5	391	25/25
5 x 10.00	17.1	650	25/25
5 x 16.00	21.3	1012	32/32
5 x 25.00	25.8	1548	32/40
5 x 35.00	29.5	2029	40/40
YY Control flexible cable – 6 cores			
6 x 0.75	6.9	81	-/20S
6 x 1.00	7.0	101	-/20

Dimensions – continued

No. of cores x nominal cross sectional area # x mm ²	Nominal overall diameter mm	Nominal weight kg/Km	FCGCXT Gland
YY Control flexible cable – 7 cores			
7 x 0.50	6.6	70	–/20S
7 x 0.75	7.1	90	–/20
7 x 1.00	7.5	104	–/20
7 x 1.50	9.0	147	20S/20
7 x 2.50	10.1	232	20S/20
YY Control flexible cable – 8 cores			
8 x 0.75	7.4	100	–/20
8 x 1.00	8.0	120	20S/20
8 x 1.50	9.5	169	20S/20
YY Control flexible cable – 12 cores			
12 x 0.50	8.6	110	20S/20
12 x 0.75	9.4	146	20S/20
12 x 1.00	9.9	174	20S/20
12 x 1.50	11.6	237	20/20
12 x 2.50	13.9	377	25/25
YY Control flexible – 18 cores			
18 x 0.75	11.1	211	20S/20
18 x 1.00	11.7	252	20S/20
18 x 1.50	13.7	347	25/25
18 x 2.50	17.1	575	25/25
YY Control flexible cable – 25 cores			
25 x 0.75	13.4	289	25/25
25 x 1.50	16.9	490	25/25
YY Control flexible cable – 34 cores			
34 x 1.00	16.3	477	25/25
YY Control flexible cable – 41 cores			
41 x 1.00	17.7	566	25/25
YY Control flexible cable – 42 cores			
42 x 0.75	16.0	461	25/25
YY Control flexible cable – 50 cores			
50 x 1.00	19.1	682	25/32
YY Control flexible cable – 61 cores			
61 x 0.75	19.8	673	32/32
YY Control flexible cable – 65 cores			
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
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 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