

Flexible Screen Control Cable (CY/PVC)



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 against direct sunlight, and in dry or damp conditions indoors. Control screen cables are not suitable for fixed wiring applications requiring compliance with the regulations set out in BS7671.

CHARACTERISTICS

Voltage Rating (Uo/U)
300/500V

Temperature Rating
Fixed: -30°C to +80°C
Flexed: -5°C to +70°C

Minimum Bending Radius
Fixed: 6 x overall diameter
Flexed: 15 x overall diameter

CONSTRUCTION

Conductor
Class 5 flexible copper conductor according to KS-IEC 60228

Insulation
PVC (Polyvinyl Chloride) Type T12 according to KS-188

Binding Tape
PET (Polyester Tape)
















Screen
TCWB (Tinned Copper Wire Braid) Or Plain Copper

Sheath
PVC (Polyvinyl Chloride) Type TM2 according to KS-188

STANDARDS

Generally, to BS EN 50525-2-51, KS-IEC 60332-1

CORE IDENTIFICATION

2 core:  Brown  Blue
3 core:  Green/Yellow  Brown  Blue
4 core:  Green/Yellow  Brown  Black
 Grey
5 core:  Green/Yellow  Brown  Black
 Grey  Blue
Multicore identification:  White with Black Numbers

Sheath Colour

● Grey



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DIMENSIONS

NO. OF CORES	NOMINAL CROSS-SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT	CXT GLAND
		mm	kg/km	
2	0.50	5.70	35	20SS
2	0.75	6.10	45	20SS
2	1.00	6.30	57	20SS
2	1.50	7.30	69	20SS
2	2.50	8.70	107	20S
3	0.50	6.00	48	20SS
3	0.75	6.40	63	20SS
3	1.00	6.60	72	20SS
3	1.50	7.70	95	20S
3	2.50	9.20	140	20S
4	0.50	6.40	62	20SS
4	0.75	6.90	76	20SS
4	1.00	7.10	89	20S
4	1.50	8.40	118	20S
4	2.50	10.00	172	20S
4	4.00	14.40	304	25
5	0.50	6.90	73	20SS
5	0.75	7.50	89	20S
5	1.00	7.70	107	20S
5	1.50	9.10	141	20S
5	2.50	10.90	216	20S
7	0.50	7.50	89	20S
7	0.75	8.10	113	20S
7	1.00	8.40	139	20S
7	1.50	9.90	181	20S
7	2.50	11.90	283	20
12	0.50	9.60	141	20S
12	0.75	10.40	181	20S
12	1.00	10.80	230	20S
12	1.50	12.90	307	20
18	0.75	12.10	274	20
18	1.00	12.60	331	20

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS-SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
	Plain Wires ohms/km
0.50	39.0
0.75	26.0
1.00	19.5
1.50	13.3
2.50	8.0

The above table is in accordance with BS EN 60228 (previously BS 6360)



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ELECTRICAL CHARACTERISTICS

Current Carrying Capacity at 30°C

NOMINAL CROSS-SECTIONAL AREA	CURRENT RATING
mm ²	Amps
0.50	9
0.75	12
1.00	15
1.50	18
2.50	26

The above table is a guide, extracted from DIN VDE 0298 Part 4 and DIN VDE 0100 Part 430

DE-RATING FACTORS

NO. OF CORES	5	7	10	14	19	24	44	48
DE-RATING FACTOR	0.72	0.63	0.56	0.51	0.45	0.42	0.34	0.33

Flexible Screened Control Cable (CY/PVC)

Cable Size	2 core		3 core		4 core		5 core	
0.50	CCYPCCU00502GY0>	100.00	CCYPCCU00503GY0>	118.00	CCYPCCU00504GY0>	140.00	CCYPCCU00505GY0>	163.00
0.75	CCYPCCU07502GY0>	113.00	CCYPCCU07503GY0>	135.00	CCYPCCU07504GY0>	162.00	CCYPCCU07505GY0>	190.00
1.00	CCYPCCU10002GY0>	125.00	CCYPCCU10003GY0>	152.00	CCYPCCU10004GY0>	183.00	CCYPCCU10005GY0>	216.00
1.50	CCYPCCU15002GY0>	153.00	CCYPCCU15003GY0>	189.00	CCYPCCU15004GY0>	230.00	CCYPCCU15005GY0>	274.00
2.50	CCYPCCU25002GY0>		CCYPCCU25003GY0>		CCYPCCU25004GY0>		CCYPCCU25005GY0>	

Cable Size	7 core		12 core		18 core	
0.50	CCYPCNU00507GY0>	199.00	CCYPCNU00512GY0>	310.00	CCYPCNU00518GY0>	421.00
0.75	CCYPCNU07507GY0>	235.00	CCYPCNU07512GY0>	401.00	CCYPCNU07518GY0>	550.00
1.00	CCYPCNU10007GY0>	268.00	CCYPCNU10012GY0>	462.00	CCYPCNU10018GY0>	639.00
1.50	CCYPCNU15007GY0>	347.00	CCYPCNU15012GY0>	607.00	CCYPCNU15018GY0>	852.00
2.50	CCYPCNU25007GY0>		CCYPCNU25012GY0>		CCYPCNU25018GY0>	

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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