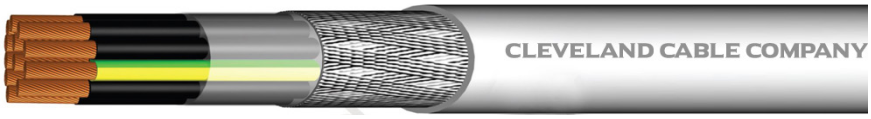
SUPERLEC DIRECT
ELECTRICAL SUPPLIES SINCE 1981

T: 0800 652 9229
W: www.superlecdirect.com
E: info@superlecdirect.com

TYPE CY PVC CONTROL CABLES



bsi Cable Verification KITEMARK™
KM 712695

APPLICATION

CY Control Flexible cable is used in similar areas as YY flexible cable (such as assembly and production lines) where there is a requirement to avoid high frequency interference.

These cables are not UV resistant but can be used outdoors if adequately protected against direct sunlight in trunking etc.

CONSTRUCTION

Conductor: Plain Annealed Flexible Copper

Insulation: Polyvinyl Chloride (PVC)

Screen: Tinned Copper Wire Braiding

Sheath: Polyvinyl Chloride (PVC)

Sheath Colour: Grey

CABLE STANDARDS

Generally to BS EN 50525-2-11
VDE 0250

CY, SY and YY Cables are thoroughly tested under BSI kitemark KM712695 in our accredited lab prior to delivery.

The lab is audited by BSI as an independent 3rd party to verify that the testing procedures and the cable meet the standards and are fit for purpose

CHARACTERISTICS

Voltage Rating: 300/500 Volts

Temperature Limits:

Flexing: -5°C to +70°C

Static: -20°C to +80°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

2 Core: Black with White numbers

3 core and above: Black with White numbers plus G/Y

Also available with coloured cores as follows:

2 Core: Brown Blue

3 Core: Brown Blue Green / Yellow

4 Core: Brown Black Grey Green / Yellow

5 Core: Brown Blue Black Grey Green / Yellow

Should not be installed at temperatures below -5°C

T: 0800 652 9229
W: www.superlecdirect.com
E: info@superlecdirect.com

TYPE CY PVC CONTROL CABLES - DIMENSIONS

CCC CODE	CONDUCTOR SIZE	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
CY2X/5	0.5	16/0.20	2	41	5	20/16
CY3X/5	0.5	16/0.20	3	50	5.2	20/16
CY4X/5	0.5	16/0.20	4	66	6.2	20/16
CY5X/5	0.5	16/0.20	5	79	7	20/16
CY7X/5	0.5	16/0.20	7	102	7.2	20/16
CY2X/75	0.75	24/0.20	2	43	5.5	20/16
CY3X/75	0.75	24/0.20	3	52	5.8	20/16
CY4X/75	0.75	24/0.20	4	68	6.5	20/16
CY5X/75	0.75	24/0.20	5	80	7.1	20/16
CY7X/75	0.75	24/0.20	7	103	7.6	20/16
CY12X/75	0.75	24/0.20	12	161	9.9	20S
CY18X/75	0.75	24/0.20	18	238	11.7	20
CY25X/75	0.75	24/0.20	25	316	13.9	20
CY2X1	1	32/0.20	2	53	6.3	20/16
CY3X1	1	32/0.20	3	64	6.4	20/16
CY4X1	1	32/0.20	4	84	7.2	20/16
CY5X1	1	32/0.20	5	100	7.8	20/16
CY7X1	1	32/0.20	7	125	8.5	20/16
CY12X1	1	32/0.20	12	209	11.3	20S
CY18X1	1	32/0.20	18	308	13.3	20
CY25X1	1	32/0.20	25	420	16.23	25
CY34X1	1	32/0.20	34	650	19.5	25
CY2X1/5	1.5	30/0.25	2	61	6.5	20/16
CY3X1/5	1.5	30/0.25	3	78	6.9	20/16
CY4X1/5	1.5	30/0.25	4	104	7.7	20/16
CY5X1/5	1.5	30/0.25	5	128	8.6	20S
CY7X1/5	1.5	30/0.25	7	159	9.2	20
CY12X1/5	1.5	30/0.25	12	281	12.7	25
CY18X1/5	1.5	30/0.25	18	396	14.7	25
CY25X1/5	1.5	30/0.25	25	534	17.49	25
CY34X1/5	1.5	30/0.25	34	720	19.89	32
CY42X1/5	1.5	30/0.25	42	1015	23.8	25
CY2X2/5	2.5	30/0.25	2	102	8	20/16
CY3X2/5	2.5	50/0.25	3	117	8.4	20/16
CY4X2/5	2.5	50/0.25	4	168	9.19	20S
CY5X2/5	2.5	50/0.25	5	199	10.3	20S
CY7X2/5	2.5	50/0.25	7	252	11.2	20S
CY12X2/5	2.5	50/0.25	12	500	16.8	25
CY2X4	4	56/0.30	2	165	10.5	20S
CY3X4	4	56/0.30	3	186	10.3	20S
CY4X4	4	56/0.30	4	239	11.8	20S
CY5X4	4	56/0.30	5	301	13	20S
CY4X6	6	84/0.30	4	327	12.9	20S
CY5X6	6	84/0.30	5	543	16.7	25
CY4X10	10	80/0.40	4	553	17.2	25
CY4X16	16	126/0.40	4	846	21	32

T: 0800 652 9229
W: www.superlecdirect.com
E: info@superlecdirect.com

CY CONTROL CABLES – CURRENT CAPACITY & CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM^2)	CURRENT CARRY CAPACITY AT 30°C IN AIR AMPS	MAXIMUM RESISTANCE CONDUCTOR AT 20°C
		PLAIN WIRES OHMS/KM
0.5	9	39
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21

CY CONTROL CABLE – VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM^2)	TWO CORE CABLE DC MV/A/M	SINGLE PHASE TWO CORE CABLE AC MV/A/M	THREE PHASE 3 OR 4 CORE CABLE AC MV/A/M
1	44	44	38
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5
6	7.3	7.3	6.4
10	4.4	4.4	3.8
16	2.8	2.8	2.4

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.