



express electrical

TYPE CY PVC CONTROL CABLE



APPLICATION

CY Control Flexible cable is used in similar areas as YY flexible cable such as assembly and production lines where it's necessary to avoid high frequency interference.

CABLE STANDARDS

GENERALLY TO BS EN 50525-2-11

VDE 0250

CONSTRUCTION

Conductor: Plain Annealed Flexible Copper

Insulation: Polyvinyl Chloride (PVC)

Sheath: Polyvinyl Chloride (PVC)

Sheath Colour: Grey

CHARACTERISTICS

Voltage Rating: 300/500 volts

Temperature Limits:

Static: -20°C to +80°C

Flexing: -5°C to +70°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 - ■ Blue ■ Brown

3 core - ■ Blue ■ Brown ■ G/Y

4 core - ■ Brown ■ Black ■ Grey ■ G/Y

5 core - ■ Blue ■ Brown ■ Black ■ Grey ■ G/Y

Should not be installed at temperatures below -5°C



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TYPE CY PVC CONTROL CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO. OF CORES	WEIGHT (Kg/Km)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
CY2X/5	0.5	16/0.20	2	41	5.00	20/16
CY3X/5	0.5	16/0.20	3	50	5.20	20/16
CY4X/5	0.5	16/0.20	4	66	6.20	20/16
CY5X/5	0.5	16/0.20	5	79	7.00	20/16
CY7X/5	0.5	16/0.20	7	102	7.20	20/16
CY2X/75	0.75	24/0.20	2	43	5.50	20/16
CY3X/75	0.75	24/0.20	3	52	5.80	20/16
CY4X/75	0.75	24/0.20	4	68	6.50	20/16
CY5X/75	0.75	24/0.20	5	80	7.10	20/16
CY7X/75	0.75	24/0.20	7	103	7.60	20/16
CY12X/75	0.75	24/0.20	12	161	9.90	20S
CY18X/75	0.75	24/0.20	18	238	11.70	20
CY25X/75	0.75	24/0.20	25	316	13.90	20
CY2X1	1	32/0.20	2	53	6.30	20/16
CY3X1	1	32/0.20	3	64	6.40	20/16
CY4X1	1	32/0.20	4	84	7.20	20/16
CY5X1	1	32/0.20	5	100	7.80	20/16
CY7X1	1	32/0.20	7	125	8.50	20/16
CY12X1	1	32/0.20	12	209	11.30	20S
CY18X1	1	32/0.20	18	308	13.30	20
CY25X1	1	32/0.20	25	420	16.23	25
CY34X1	1	32/0.20	34	650	19.50	25
CY2X1/5	1.5	30/0.25	2	61	6.50	20/16
CY3X1/5	1.5	30/0.25	3	78	6.90	20/16
CY4X1/5	1.5	30/0.25	4	104	7.70	20/16
CY5X1/5	1.5	30/0.25	5	128	8.60	20S
CY7X1/5	1.5	30/0.25	7	159	9.20	20
CY12X1/5	1.5	30/0.25	12	281	12.70	25
CY18X1/5	1.5	30/0.25	18	396	14.70	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	23.80	25
CY2X2/5	2.5	30/0.25	2	102	8.00	20/16
CY3X2/5	2.5	50/0.25	3	117	8.40	20/16
CY4X2/5	2.5	50/0.25	4	168	9.190	20S
CY5X2/5	2.5	50/0.25	5	199	10.30	20S
CY7X2/5	2.5	50/0.25	7	252	11.20	20S
CY12X2/5	2.5	50/0.25	12	500	16.80	25
CY2X4	4	56/0.30	2	165	10.50	20S
CY3X4	4	56/0.30	3	186	10.30	20S
CY4X4	4	56/0.30	4	239	11.80	20S
CY5X4	4	56/0.30	5	301	13.00	20S
CY4X6	6	84/0.30	4	327	12.90	20S
CY5X6	6	84/0.30	5	543	16.70	25
CY4X10	10	80/0.40	4	553	17.20	25
CY4X16	16	126/0.40	4	846	21.00	32

CY PVC CONTROL CABLE – CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM ²)	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR MM	MAXIMUM RESISTANCE CONDUCTOR AT 20 ⁰ C
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 PVC CONTROL CABLE – CURRENT CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM ²)	CURRENT CARRY CAPACITY AY 30 ⁰ C IN AIR AMPS	CURRENT CARRY CAPACITY AY 30 ⁰ C IN CONDUIT AMPS
0.75	16	9
1	20	12
1.5	24	15
2.5	32	18
4	42	26
6	54	34
10	73	44
16	98	61

CY PVC 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