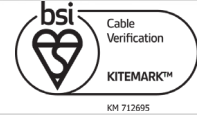
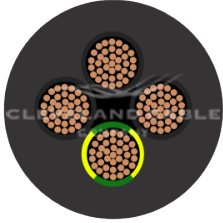


## TYPE YY PVC CONTROL CABLE



### APPLICATION

YY Control Cable is used as a control cable on conveyors, assembly and production lines. It is generally used indoors as an interconnecting cable in signal and control equipment.

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

### CONSTRUCTION

**Conductor:** Plain Annealed Stranded Copper

**Insulation:** PVC

**Sheath:** 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:**

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: **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

## TYPE YY PVC CONTROL CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
YY2X/50	0.50	16/0.20	2	35	4.9	20/16
YY3X/50	0.50	16/0.20	3	44	5.3	20/16
YY4X/50	0.50	16/0.20	4	53	5.9	20/16
YY5X/50	0.50	16/0.20	5	68	6.4	20/16
YY7X/50	0.50	16/0.20	7	90	7.9	20/16
YY9X/50	0.50	16/0.20	9	100	8.3	20/16
YY10X/50	0.50	16/0.20	10	114	8.6	20/16
YY12X/50	0.50	16/0.20	12	131	9.1	20/16
YY14X/50	0.50	16/0.20	14	148	9.6	20/16
YY16X/50	0.50	16/0.20	16	167	10.2	20/16
YY18X/50	0.50	16/0.20	18	186	10.8	20S
YY20X/50	0.50	16/0.20	20	224	11.6	20S
YY2X/75	0.75	24/0.20	2	46	5.60	20/16
YY3X/75	0.75	24/0.20	3	52	5.70	20/16
YY4X/75	0.75	24/0.20	4	64	6.20	20/16
YY5X/75	0.75	24/0.20	5	77	7.00	20/16
YY7X/75	0.75	24/0.20	7	95	7.30	20/16
YY12X/75	0.75	24/0.20	12	155	9.50	20S
YY25X/75	0.75	24/0.20	25	305	13.20	20
YY34X/75	0.75	24/0.20	34	460	16.70	25
YY50X/75	0.75	24/0.20	50	578	18.40	25
YY65X/75	0.75	24/0.20	65	850	23.50	32
YY2X1	1	32/0.20	2	55	6.00	20/16
YY3X1	1	32/0.20	3	66	6.10	20/16
YY4X1	1	32/0.20	4	82	6.70	20/16
YY5X1	1	32/0.20	5	93	7.50	20/16
YY7X1	1	32/0.20	7	121	8.10	20S
YY12X1	1	32/0.20	12	200	11.00	20S
YY18X1	1	32/0.20	18	318	12.70	20
YY25X1	1	32/0.20	25	415	15.50	25
YY34X1	1	32/0.20	34	575	18.30	25
YY41X1	1	32/0.20	41	665	19.00	25
YY50X1	1	32/0.20	50	815	21.30	32
YY65X1	1	32/0.20	65	1055	25.60	32
YY2X1/5	1.5	30/0.25	2	69	6.60	20/16
YY3X1/5	1.5	30/0.25	3	87	7.00	20/16
YY4X1/5	1.5	30/0.25	4	110	7.60	20/16
YY5X1/5	1.5	30/0.25	5	124	8.10	20S
YY7X1/5	1.5	30/0.25	7	176	9.20	20S
YY8X1/5	1.5	30/0.25	8	230	11.20	20

## TYPE YY PVC CONTROL CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
YY10X1/5	1.5	30/0.25	10	265	12.40	20
YY12X1/5	1.5	30/0.25	12	290	13.10	20
YY18X1/5	1.5	30/0.25	18	424	14.80	25
YY25X1/5	1.5	30/0.25	25	565	18.00	25
YY34X1/5	1.5	30/0.25	34	775	21.00	32
YY50X1/5	1.5	30/0.25	50	1095	24.30	32
YY65X1/5	1.5	30/0.25	65	1390	28.80	40
YY2X2/5	2.5	50/0.25	2	106	7.80	20/16
YY3X2/5	2.5	50/0.25	3	126	8.10	20S
YY4X2/5	2.5	50/0.25	4	159	8.90	20S
YY5X2/5	2.5	50/0.25	5	178	9.70	20S
YY7X2/5	2.5	50/0.25	7	272	11.10	20S
YY8X2/5	2.5	50/0.25	8	350	13.50	20
YY12X2/5	2.5	50/0.25	12	403	13.80	20
YY18X2/5	2.5	50/0.25	18	597	17.50	25
YY25X2/5	2.5	50/0.25	25	885	22.00	32
YY34X2/5	2.5	50/0.25	34	1220	25.80	32
YY3X4	4	56/0.30	3	201	10.40	20S
YY4X4	4	56/0.30	4	283	10.70	20S
YY5X4	4	56/0.30	5	293	12.40	20
YY7X4	4	56/0.30	7	413	14.00	25
YY3X6	6	84/0.30	3	273	11.50	20
YY4X6	6	84/0.30	4	352	12.80	20
YY5X6	6	84/0.30	5	415	14.60	25
YY7X6	6	84/0.30	7	537	15.20	25
YY3X10	10	80/0.40	3	466	15.30	25
YY4X10	10	80/0.40	4	631	16.50	25
YY5X10	10	80/0.40	5	720	18.60	25
YY3X16	16	126/0.40	3	697	18.40	25
YY4X16	16	126/0.40	4	767	19.90	32
YY5X16	16	126/0.40	5	1151	22.40	32
YY3X25	25	196/0.40	3	930	21.50	32
YY4X25	25	196/0.40	4	1150	22.50	32
YY5X25	25	196/0.40	5	1679	27.90	40
YY4X35	35	276/0.40	4	1970	29.00	40
YY5X35	35	276/0.40	5	2206	31.30	40
YY4X50	50	396/0.40	4	2700	34.00	50S

## YY CONTROL CABLE - CURRENT CAPACITY & CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	CURRENT CARRY CAPACITY AT 30°C IN AIR AMPS	MAXIMUM RESISTANCE CONDUCTOR AT 20°C
0.50	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
25	108	0.780
35	135	0.554

## TYPE YY CONTROL CABLE - VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	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
25	1.75	1.75	1.50
35	1.25	1.25	1.10

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.