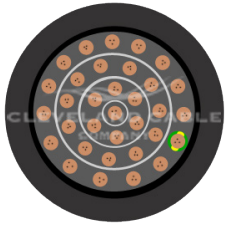


## TYPE YY CONTROL CABLE LSZH



### APPLICATION

YY cable is used as measuring, control and checking applications on conveyors, assembly and production lines. The low smoke zero halogen outer sheath is designed for areas of high concentrations of people where fire, smoke emissions and toxic fumes can cause a threat to life.

### 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

### CONSTRUCTION

**Conductor:** Plain Annealed Stranded Copper Conductors

**Insulation:** LSZH

**Sheath:** LSZH

**Sheath Colour:**  Grey

### CHARACTERISTICS

**Voltage Rating:** 300/500 Volts

**Temperature Limits:**

Flexing: -5°C to +70°C

Static: -20°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  Green/Yellow

Also available with coloured cores as follows:

**2 Core:**  Blue  Brown

**3 Core:**  Blue  Brown  Green/Yellow

**4 Core:**  Brown  Black  Grey  Green/Yellow

**5 Core:**  Blue  Brown  Black  Grey  Green/Yellow

Should not be installed at temperatures below -5°C

## TYPE YY CONTROL CABLE LSZH - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
YY2X/75LSF	0.75	24/0.20	2	46	5.60	20/16
YY3X/75LSF	0.75	24/0.20	3	52	5.70	20/16
YY4X/75LSF	0.75	24/0.20	4	64	6.20	20/16
YY5X/75LSF	0.75	24/0.20	5	77	7.00	20/16
YY7X/75LSF	0.75	24/0.20	7	95	7.30	20/16
YY12X/75LSF	0.75	24/0.20	12	155	9.50	20S
YY25X/75LSF	0.75	24/0.20	25	305	13.20	20
YY34X/75LSF	0.75	24/0.20	34	460	16.70	25
YY2X1LSF	1	32/0.20	2	55	6.00	20/16
YY3X1LSF	1	32/0.20	3	66	6.10	20/16
YY4X1LSF	1	32/0.20	4	82	6.70	20/16
YY5X1LSF	1	32/0.20	5	93	7.50	20/16
YY2X1/5LSF	1.5	30/0.25	2	69	6.60	20/16
YY3X1/5LSF	1.5	30/0.25	3	87	7.00	20/16
YY4X1/5LSF	1.5	30/0.25	4	110	7.60	20/16
YY5X1/5LSF	1.5	30/0.25	5	124	8.10	20S
YY7X1/5LSF	1.5	30/0.25	7	176	9.20	20S
YY12X1/5LSF	1.5	30/0.25	12	290	13.10	20
YY18X1/5LSF	1.5	30/0.25	18	424	14.80	25
YY25X1/5LSF	1.5	30/0.25	25	565	18.00	25
YY34X1/5LSF	1.5	30/0.25	34	775	21.00	32
YY2X2/5LSF	2.5	50/0.25	2	106	7.80	20/16
YY3X2/5LSF	2.5	50/0.25	3	126	8.10	20S
YY4X2/5LSF	2.5	50/0.25	4	159	8.90	20S
YY5X2/5LSF	2.5	50/0.25	5	178	9.70	20S
YY7X2/5LSF	2.5	50/0.25	7	272	11.10	20
YY3X4LSF	4	56/0.30	3	201	10.40	20S
YY4X4LSF	4	56/0.30	4	283	10.70	20S
YY5X4LSF	4	56/0.30	5	293	12.40	20
YY7X4LSF	4	56/0.30	7	413	14.00	25
YY3X6LSF	6	84/0.30	3	273	11.50	20
YY4X6LSF	6	84/0.30	4	352	12.80	20
YY5X6LSF	6	84/0.30	5	415	14.60	25
YY7X6LSF	6	84/0.30	7	537	15.20	25
YY3X10LSF	10	80/0.40	3	466	15.30	25
YY4X10LSF	10	80/0.40	4	631	16.50	25
YY5X10LSF	10	80/0.40	5	720	18.60	25
YY3X16LSF	16	126/0.4	3	697	18.40	25
YY4X16LSF	16	126/0.4	4	767	19.90	32
YY5X16LSF	16	126/0.40	5	1151	22.40	32
YY3X25LSF	25	196/0.40	3	930	21.50	32

## TYPE YY CONTROL CABLE LSZH – CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR MM	MAXIMUM RESISTANCE CONDUCTOR AT 20°C
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	23	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.780

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

## YY CONTROL CABLE – CURRENT CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	CURRENT CARRY CAPACITY AT 30°C IN AIR AMPS	CURRENT CARRY CAPACITY AT 30°C IN CONDUIT AMPS
0.75	13	9
1	14.5	11.5
1.5	18.5	15
2.5	25	20
4	34	27
6	43	34
10	60	46
16	80	62

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

## YY CONTROL CABLE – VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	TWO CORE CABLE DC	SINGLE PHASE TWO CORE CABLE AC	THREE PHASE 3 OR 4 CORE CABLE AC
	mV/A/m	mV/A/m	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.