CLEVELAND CABLE COMPANY
A WORLD POWER IN CABLE SUPPLY

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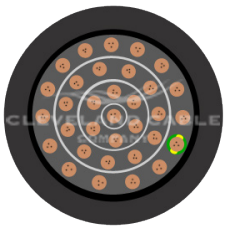
# TYPE YY CONTROL CABLE LSZH




## 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: -5ºC to +70ºC
Static: -20ºC to + 70ºC

**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 -5ºC

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# TYPE YY CONTROL CABLE LSZH - DIMENSIONS

| CCC CODE | CONDUCTOR SIZE ($MM^2$) | 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 |

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# TYPE YY CONTROL CABLE LSZH – CONDUCTOR RESISTANCE

| NOMINAL CROSS SECTIONAL AREA ($MM^2$) | 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 ($MM^2$) | 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 |

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# YY 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 |

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