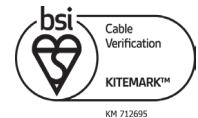
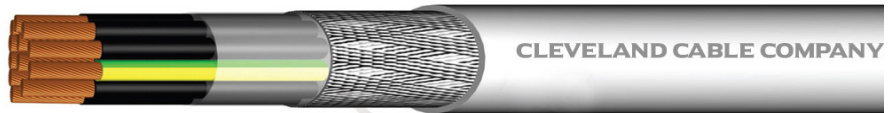
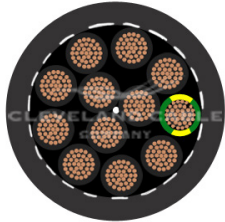


TYPE CY CONTROL CABLES LSZH



APPLICATION

Low smoke zero halogen CY flexible control cable is used in installations where a screen is required to prevent interference on data and signal transmissions. The flexible cable is also used on measuring as well as checking and control equipment in areas where there is risk to life from fire, smoke emissions and toxic fumes.

CONSTRUCTION

Conductor: Plain Annealed Flexible Copper
Insulation: Low Smoke Zero Halogen (LSZH)
Screen: Tinned Copper Wire Braiding
Sheath: Low Smoke Zero Halogen (LSZH)
Sheath Colour: Grey

CABLE STANDARDS

Generally to BS EN 50525-3-11
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 +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 CY CONTROL CABLES LSZH - DIMENSIONS

| CCC CODE | CONDUCTOR SIZE | STRANDING (MM) | NO. OF CORES | WEIGHT (KG/KM) | OUTSIDE DIAMETER (MM) | GLAND SIZE (MM) |
|-------------|----------------|----------------|--------------|----------------|-----------------------|-----------------|
| CY2X/75LSF | 0.75 | 24/0.20 | 2 | 43 | 5.50 | 20/16 |
| CY3X/75LSF | 0.75 | 24/0.20 | 3 | 52 | 5.80 | 20/16 |
| CY4X/75LSF | 0.75 | 24/0.20 | 4 | 68 | 6.50 | 20/16 |
| CY5X/75LSF | 0.75 | 24/0.20 | 5 | 80 | 7.10 | 20/16 |
| CY7X/75LSF | 0.75 | 24/0.2 | 7 | 103 | 7.60 | 20/16 |
| CY2X1/5LSF | 1.5 | 30/0.25 | 2 | 61 | 6.50 | 20/16 |
| CY3X1/5LSF | 1.5 | 30/0.25 | 3 | 78 | 6.90 | 20/16 |
| CY4X1/5LSF | 1.5 | 30/0.25 | 4 | 104 | 7.70 | 20/16 |
| CY5X1/5LSF | 1.5 | 30/0.25 | 5 | 128 | 8.60 | 20/16 |
| CY12X1/5LSF | 1.5 | 30/0.25 | 12 | 281 | 12.70 | 25 |
| CY18X1/5LSF | 1.5 | 30/0.25 | 18 | 396 | 14.70 | 25 |
| CY25X1/5LSF | 1.5 | 30/0.25 | 25 | 534 | 17.49 | 25 |
| CY34X1/5LSF | 1.5 | 30/0.25 | 34 | 720 | 19.89 | 32 |
| CY2X2/5LSF | 2.5 | 50/0.25 | 2 | 102 | 8.00 | 20/16 |
| CY3X2/5LSF | 2.5 | 50/0.25 | 3 | 117 | 8.40 | 20/16 |
| CY4X2/5LSF | 2.5 | 50/0.25 | 4 | 168 | 9.19 | 20S |
| CY4X4LSF | 4 | 56/0.25 | 4 | 239 | 11.80 | 20S |
| CY4X6LSF | 6 | 84/0.30 | 4 | 327 | 12.90 | 20S |
| CY5X6LSF | 6 | 84/0.30 | 5 | 543 | 16.70 | 25 |
| CY4X10LSF | 10 | 80/0.40 | 4 | 553 | 17.20 | 25 |
| CY4X16LSF | 16 | 126/0.40 | 4 | 846 | 21.00 | 32 |

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.