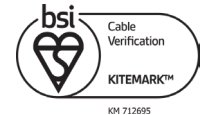
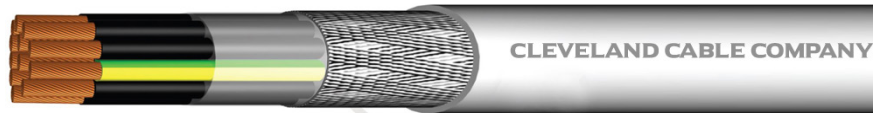
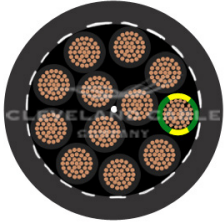




TYPE CY PVC CONTROL CABLES



APPLICATION

CY Control Flexible cable is used in similar areas as YY flexible cable (such as assembly and production lines) where there is a requirement to avoid high frequency interference.

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

CONSTRUCTION

Conductor: Plain Annealed Flexible Copper

Insulation: Polyvinyl Chloride (PVC)

Screen: Tinned Copper Wire Braiding

Sheath: Polyvinyl Chloride (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:

Flexing: -5°C to +70°C

Static: -20°C to +80°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

For more information contact:
01642 241 133



TYPE CY PVC CONTROL CABLES - DIMENSIONS

| CCC CODE | CONDUCTOR SIZE | STRANDING (MM) | NO. OF CORES | WEIGHT (KG/KM) | OUTSIDE DIAMETER (MM) | GLAND SIZE (MM) |
|----------|----------------|----------------|--------------|----------------|-----------------------|-----------------|
| CY2X/5 | 0.5 | 16/0.20 | 2 | 41 | 5 | 20/16 |
| CY3X/5 | 0.5 | 16/0.20 | 3 | 50 | 5.2 | 20/16 |
| CY4X/5 | 0.5 | 16/0.20 | 4 | 66 | 6.2 | 20/16 |
| CY5X/5 | 0.5 | 16/0.20 | 5 | 79 | 7 | 20/16 |
| CY7X/5 | 0.5 | 16/0.20 | 7 | 102 | 7.2 | 20/16 |
| CY2X/75 | 0.75 | 24/0.20 | 2 | 43 | 5.5 | 20/16 |
| CY3X/75 | 0.75 | 24/0.20 | 3 | 52 | 5.8 | 20/16 |
| CY4X/75 | 0.75 | 24/0.20 | 4 | 68 | 6.5 | 20/16 |
| CY5X/75 | 0.75 | 24/0.20 | 5 | 80 | 7.1 | 20/16 |
| CY7X/75 | 0.75 | 24/0.20 | 7 | 103 | 7.6 | 20/16 |
| CY12X/75 | 0.75 | 24/0.20 | 12 | 161 | 9.9 | 20S |
| CY18X/75 | 0.75 | 24/0.20 | 18 | 238 | 11.7 | 20 |
| CY25X/75 | 0.75 | 24/0.20 | 25 | 316 | 13.9 | 20 |
| CY2X1 | 1 | 32/0.20 | 2 | 53 | 6.3 | 20/16 |
| CY3X1 | 1 | 32/0.20 | 3 | 64 | 6.4 | 20/16 |
| CY4X1 | 1 | 32/0.20 | 4 | 84 | 7.2 | 20/16 |
| CY5X1 | 1 | 32/0.20 | 5 | 100 | 7.8 | 20/16 |
| CY7X1 | 1 | 32/0.20 | 7 | 125 | 8.5 | 20/16 |
| CY12X1 | 1 | 32/0.20 | 12 | 209 | 11.3 | 20S |
| CY18X1 | 1 | 32/0.20 | 18 | 308 | 13.3 | 20 |
| CY25X1 | 1 | 32/0.20 | 25 | 420 | 16.23 | 25 |
| CY34X1 | 1 | 32/0.20 | 34 | 650 | 19.5 | 25 |
| CY2X1/5 | 1.5 | 30/0.25 | 2 | 61 | 6.5 | 20/16 |
| CY3X1/5 | 1.5 | 30/0.25 | 3 | 78 | 6.9 | 20/16 |
| CY4X1/5 | 1.5 | 30/0.25 | 4 | 104 | 7.7 | 20/16 |
| CY5X1/5 | 1.5 | 30/0.25 | 5 | 128 | 8.6 | 20S |
| CY7X1/5 | 1.5 | 30/0.25 | 7 | 159 | 9.2 | 20 |
| CY12X1/5 | 1.5 | 30/0.25 | 12 | 281 | 12.7 | 25 |
| CY18X1/5 | 1.5 | 30/0.25 | 18 | 396 | 14.7 | 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 | 23.8 | 25 |
| CY2X2/5 | 2.5 | 30/0.25 | 2 | 102 | 8 | 20/16 |
| CY3X2/5 | 2.5 | 50/0.25 | 3 | 117 | 8.4 | 20/16 |
| CY4X2/5 | 2.5 | 50/0.25 | 4 | 168 | 9.19 | 20S |
| CY5X2/5 | 2.5 | 50/0.25 | 5 | 199 | 10.3 | 20S |
| CY7X2/5 | 2.5 | 50/0.25 | 7 | 252 | 11.2 | 20S |
| CY12X2/5 | 2.5 | 50/0.25 | 12 | 500 | 16.8 | 25 |
| CY2X4 | 4 | 56/0.30 | 2 | 165 | 10.5 | 20S |
| CY3X4 | 4 | 56/0.30 | 3 | 186 | 10.3 | 20S |
| CY4X4 | 4 | 56/0.30 | 4 | 239 | 11.8 | 20S |
| CY5X4 | 4 | 56/0.30 | 5 | 301 | 13 | 20S |
| CY4X6 | 6 | 84/0.30 | 4 | 327 | 12.9 | 20S |
| CY5X6 | 6 | 84/0.30 | 5 | 543 | 16.7 | 25 |
| CY4X10 | 10 | 80/0.40 | 4 | 553 | 17.2 | 25 |
| CY4X16 | 16 | 126/0.40 | 4 | 846 | 21 | 32 |

For more information contact:
01642 241 133



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.

For more information contact:
01642 241 133