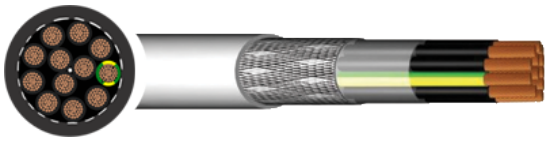
# Cable de control CY - Flexible - BS EN 50525-2-11 y VDE 0250 - 0,5 mm² a 16 mm²



## Descripción

El cable flexible de control CY se utiliza en áreas similares a las del cable flexible YY (como líneas de montaje y producción) donde es necesario evitar interferencias de alta frecuencia. Estos cables no son resistentes a los rayos UV, pero pueden utilizarse en exteriores si se protegen adecuadamente contra la luz solar directa en canaletas, etc.

## Características principales

**Tensión nominal**
300/500 voltios

**Radio mínimo de curvatura**
10 x Diámetro total

**Retardancia de llama**
BS EN/IEC 60332-1-2

**Límites de temperatura**
Fijo: de -40 °C a +80 °C

## Colores principales

2 centro - Negro con Blanco números

3 centro y arriba - Negro con Blanco números plus Verde Amarillo

Also available con coloured centros as follows:

2 centro - Azul Marrón

3 centro - Azul Marrón Verde Amarillo

4 centro - Marrón Negro Gris Verde Amarillo

5 centro - Azul Marrón Negro Gris Verde Amarillo

## Normas

- Generalmente según la norma BS EN 50525-2-11
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- EN 50395
- Generalmente según VDE 0250

## Construcción

- **Conductor**: Cobre trenzado flexible de clase 5
- **Aislamiento**: Cloruro de polivinilo (PVC)
- **Separador**: Cinta de poliéster (PET)
- **Pantalla**: Tejido de alambre de cobre estañado
- **Cubierta exterior**: Cloruro de polivinilo (PVC)
- **Color de la funda**: Gris

## Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

**Laboratorio de pruebas y formación de cables de Cleveland**
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory 31196

**CPR**
Cleveland Cable Company se compromete a cumplir con el Reglamento de Productos de Construcción (CPR). Cuando procede, todos los cables fabricados después del 1 de julio de 2017 han sido evaluados de acuerdo con los requisitos del CPR, con toda la documentación de apoyo disponible.

## Nuestro compromiso con la sostenibilidad

Estamos comprometidos con el camino hacia el objetivo Net Zero como socios comerciales, empleadores y miembros de la comunidad.

Al pensar y actuar de forma sostenible, ofrecemos un excelente servicio al cliente y reducimos las emisiones de carbono en colaboración con nuestros clientes y proveedores.

**ecovadis**
Cleveland Cable Company ha sido evaluada de forma independiente por EcoVadis, un proveedor de calificaciones de sostenibilidad empresarial reconocido a nivel mundial. Nuestra puntuación nos sitúa entre el 35 % de las mejores empresas evaluadas en todo el mundo, lo que refleja nuestro firme compromiso con el rendimiento medioambiental, social y ético.

## Cable de control CY - Flexible - BS EN 50525-2-11 y VDE 0250 - 0,5 mm² a 16 mm² - Dimensiones

| Referencia | Conductor Size (mm2) | No Of Cores | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Gland Size(mm) Brass A2 |
|---|---|---|---|---|---|---|
| CY2X/5 | 0.5 | 2 | 16/0.20 | 5 | 41 | 20/16 |
| CY3X/5 | 0.5 | 3 | 16/0.20 | 5.2 | 50 | 20/16 |
| CY4X/5 | 0.5 | 4 | 16/0.20 | 6.2 | 66 | 20/16 |
| CY5X/5 | 0.5 | 5 | 16/0.20 | 7 | 79 | 20/16 |
| CY7X/5 | 0.5 | 7 | 16/0.20 | 7.2 | 102 | 20/16 |
| CY2X/75 | 0.75 | 2 | 24/0.20 | 5.5 | 43 | 20/16 |
| CY3X/75 | 0.75 | 3 | 24/0.20 | 5.8 | 52 | 20/16 |
| CY4X/75 | 0.75 | 4 | 24/0.20 | 6.5 | 68 | 20/16 |
| CY5X/75 | 0.75 | 5 | 24/0.20 | 7.1 | 80 | 20/16 |
| CY7X/75 | 0.75 | 7 | 24/0.20 | 7.6 | 103 | 20/16 |
| CY12X/75 | 0.75 | 12 | 24/0.20 | 9.9 | 161 | 20S |
| CY18X/75 | 0.75 | 18 | 24/0.20 | 11.7 | 238 | 20 |
| CY25X/75 | 0.75 | 25 | 24/0.20 | 13.9 | 316 | 20 |
| CY2X1 | 1 | 2 | 32/0.20 | 6.3 | 53 | 20/16 |
| CY3X1 | 1 | 3 | 32/0.20 | 6.4 | 64 | 20/16 |
| CY4X1 | 1 | 4 | 32/0.20 | 7.2 | 84 | 20/16 |
| CY5X1 | 1 | 5 | 32/0.20 | 7.8 | 100 | 20/16 |
| CY7X1 | 1 | 7 | 32/0.20 | 8.5 | 125 | 20/16 |
| CY12X1 | 1 | 12 | 32/0.20 | 11.3 | 209 | 20S |
| CY18X1 | 1 | 18 | 32/0.20 | 13.3 | 308 | 20 |
| CY25X1 | 1 | 25 | 32/0.20 | 16.23 | 420 | 25 |
| CY34X1 | 1 | 34 | 32/0.20 | 19.5 | 650 | 25 |
| CY2X1/5 | 1.5 | 2 | 30/0.25 | 6.5 | 61 | 20/16 |
| CY3X1/5 | 1.5 | 3 | 30/0.25 | 6.9 | 78 | 20/16 |
| CY4X1/5 | 1.5 | 4 | 30/0.25 | 7.7 | 104 | 20/16 |
| CY5X1/5 | 1.5 | 5 | 30/0.25 | 8.6 | 128 | 20S |
| CY7X1/5 | 1.5 | 7 | 30/0.25 | 9.2 | 159 | 20 |
| CY12X1/5 | 1.5 | 12 | 30/0.25 | 12.7 | 281 | 25 |
| CY18X1/5 | 1.5 | 18 | 30/0.25 | 14.7 | 396 | 25 |
| CY25X1/5 | 1.5 | 25 | 30/0.25 | 17.49 | 534 | 25 |
| CY34X1/5 | 1.5 | 34 | 30/0.25 | 19.89 | 720 | 32 |
| CY42X1/5 | 1.5 | 42 | 30/0.25 | 23.8 | 1015 | 25 |
| CY2X2/5 | 2.5 | 2 | 50/0.25 | 8 | 102 | 20/16 |
| CY3X2/5 | 2.5 | 3 | 50/0.25 | 8.4 | 117 | 20/16 |
| CY4X2/5 | 2.5 | 4 | 50/0.25 | 9.19 | 168 | 20S |
| CY5X2/5 | 2.5 | 5 | 50/0.25 | 10.3 | 199 | 20S |
| CY7X2/5 | 2.5 | 7 | 50/0.25 | 11.2 | 252 | 20S |

| Referencia | Conductor Size (mm2) | No Of Cores | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Gland Size(mm) Brass A2 |
|---|---|---|---|---|---|---|
| CY12X2/5 | 2.5 | 12 | 50/0.25 | 16.8 | 500 | 25 |
| CY2X4 | 4 | 2 | 56/0.30 | 10.5 | 165 | 20S |
| CY3X4 | 4 | 3 | 56/0.30 | 10.3 | 186 | 20S |
| CY4X4 | 4 | 4 | 56/0.30 | 11.8 | 239 | 20S |
| CY5X4 | 4 | 5 | 56/0.30 | 13 | 301 | 20S |
| CY4X6 | 6 | 4 | 84/0.30 | 12.9 | 327 | 20S |
| CY5X6 | 6 | 5 | 84/0.30 | 14.6 | 543 | 25 |
| CY4X10 | 10 | 4 | 80/0.30 | 17.2 | 553 | 25 |
| CY5X10CC | 10 | 5 | 84/0.40 | 18.05 | 630 | 32 |
| CY4X16 | 16 | 4 | 126/0.40 | 21 | 846 | 32 |
| CY5X16CC | 16 | 5 | 126/0.40 | 22.7 | 1140 | 40 |

**Multi core non-armoured 90 °C and 180°C thermosetting insulated flexible cables with sheath Reproduced from BS7671:2018 Wiring Regulations**

## TABLE 4F2A

### CURRENT-CARRYING CAPACITY (Amps)

**Ambient temperature: 30 °C**
**Conductor operating temperature: 90 °C**

| Conductor cross sectional area | Single-phase AC or DC | Three-phase AC | Single-phase AC or DC |
|---|---|---|---|
| | 1 x 2 core cable, with or without protective conductor | 1 x 3 core, 4 core or 5 core cable | 2 single-core cables, touching |
| ($mm^2$) | (A) | (A) | (A) |
| 4 | 42 | 37 | - |
| 6 | 55 | 49 | - |
| 10 | 76 | 66 | - |
| 16 | 103 | 89 | - |
| 25 | 136 | 119 | - |
| 35 | - | 146 | 200 |
| 50 | - | 177 | 250 |
| 70 | - | 225 | 310 |
| 95 | - | 273 | 369 |
| 120 | - | 316 | 432 |
| 150 | - | 363 | 497 |
| 185 | - | 414 | 564 |
| 240 | - | 487 | 673 |
| 300 | - | 560 | 773 |
| 400 | - | - | 924 |
| 500 | - | - | 1062 |
| 630 | - | - | 1242 |
| | | | |

**NOTES:**

1 The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with ***NOTE 2*** below and for cables which may be covered, ***NOTE 3 below.***

2 **Flexible cables wound on reeling drums**
The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum
ventilated: 85 %
unventilated: 75 %

b) Ventilated cylindrical type drum
I layer of cable: 85 %
2 layers of cable: 65 %
3 layers of cable: 45 %
4 layers of cable: 35 %

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3 Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

4 For 180 °C cables, the rating factors for ambient temperature allow a conductor operating temperature up to 150 °C.
Consult the cable manufacturer for further information.

5 Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory ( see Regulation 512.1.5).

6 Where it is intended to group a cable in this table with other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

Multi core non-armoured 90 °C and 180°C thermosetting insulated flexible cables with sheath Reproduced from BS7671:2018 Wiring Regulations

## TABLE 4F2B

**VOLTAGE DROP (per ampere per metre):**

**Conductor operating temperature: 90 °C**

| Conductor cross-sectional area | Two-core cable or 2 x Single core cables DC | 2 core cable, single-phase AC | | | 1 x 3 core, 4 core or 5 core cable, three-phase AC | | | 2 single-core cables, touching Single-phase AC* | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ($mm^2$) | (mV/Nm) | (mV/Nm) | | | (mV/Nm) | | | (mV/Nm) | | |
| 4 | 13.20 | 13.20 | | | 11.10 | | | - | | |
| 6 | 8.50 | 8.50 | | | 7.40 | | | - | | |
| 10 | 5.10 | 5.10 | | | 4.40 | | | - | | |
| 16 | 3.20 | 3.20 | | | 2.70 | | | - | | |
| | | r | x | z | r | x | z | r | x | z |
| 25 | 2.03 | 2.03 | 0.175 | 2.04 | 1.73 | 0.150 | 1.73 | - | - | - |
| 35 | 1.420 | - | - | - | 1.22 | 0.150 | 1.23 | 1.44 | 0.21 | 1.46 |
| 50 | 1.000 | - | - | - | 0.91 | 0.145 | 0.93 | 1.00 | 0.21 | 1.02 |
| 70 | 0.710 | - | - | - | 0.62 | 0.140 | 0.64 | 0.71 | 0.20 | 0.73 |
| 95 | 0.540 | - | - | - | 0.47 | 0.135 | 0.49 | 0.54 | 0.195 | 0.57 |
| 120 | 0.420 | - | - | - | 0.37 | 0.135 | 0.39 | 0.42 | 0.190 | 0.46 |
| 150 | 0.340 | - | - | - | 0.29 | 0.130 | 0.32 | 0.34 | 0.190 | 0.39 |
| 185 | 0.270 | - | - | - | 0.24 | 0.130 | 0.27 | 0.27 | 0.190 | 0.33 |
| 240 | 0.210 | - | - | - | 0.188 | 0.130 | 0.23 | 0.210 | 0.185 | 0.28 |
| 300 | 0.167 | - | - | - | 0.147 | 0.125 | 0.195 | 0.173 | 0.180 | 0.25 |
| 400 | 0.127 | - | - | - | - | - | - | 0.132 | 0.175 | 0.22 |
| 500 | 0.100 | - | - | - | - | - | - | 0.107 | 0.170 | 0.20 |
| 630 | 0.074 | - | - | - | - | - | - | 0.085 | 0.170 | 0.190 |

***NOTES:***

1 The voltage drop figures given above are based on a conductor operating temperature of 90 °C and are therefore not accurate when the operating temperature is in excess of 90 C. In the case of the 180 °C cables with a conductor temperature of 150 °C the above resistive values should be increased by a factor of 1.2.

2 *A larger voltage drop will result if the cables are spaced.

LA INFORMACIÓN CONTENIDA EN ESTA FICHA TÉCNICA ES MERAMENTE ORIENTATIVA Y ESTÁ SUJETA A CAMBIOS SIN PREVIO AVISO NI RESPONSABILIDAD ALGUNA. CONSIDERAMOS QUE LA INFORMACIÓN ES CORRECTA EN EL MOMENTO DE SU PUBLICACIÓN. TENGA EN CUENTA QUE, AL SELECCIONAR LOS ACCESORIOS PARA CABLES, LAS DIMENSIONES REALES DE LOS CABLES PUEDEN VARIAR DEBIDO A LAS TOLERANCIAS DE FABRICACIÓN.



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