# Cable de alimentación con resistencia al fuego mejorada F120 1 kV - BS7846, BS8491, MGT, XLPE, SWA, LSZH - 25 mm² a 400 mm²



## Descripción

Cable de alimentación ignífugo, adecuado para instalaciones fijas como circuitos eléctricos, sistemas de alarma contra incendios e iluminación de emergencia. Diseñado específicamente para cumplir con las estrictas normas de la BS8491, que incluyen una mayor resistencia al calor y al fuego, al impacto directo de 10 N y al chorro de agua que produciría una unidad de extinción de incendios.

## Características principales

**Tensión nominal**
600/1000 voltios

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

**Retardancia de llama**
BS EN/IEC 60332-1-2
BS EN/IEC 60332-3-24

**Límites de temperatura**
Rango de temperatura: -20 °C a +90 °C

## Colores principales

2 centro - Marrón | Azul

3 centro - Marrón | Negro | Gris

4 centro - Marrón | Negro | Gris | Azul

Sheath Colour: Negro

## Normas

- BS EN/IEC 60332-1-2
- Resistente al fuego según BS7846 F120
- BS EN/IEC 60332-3-24 (cat C). BS6837 Cat CWZ
- IEC/EN 61034-1/2, IEC/EN 60754-1/2

## Construcción

- **Conductor**: Conductor de cobre trenzado de clase 2
- **Aislamiento**: Polietileno reticulado (XLPE)
- **Revestimiento**: Bajo humo y sin halógenos (LSZH)
- **Protección contra incendios**: Cinta de fibra de vidrio MICA
- **Armadura**: Armadura de alambre de acero (SWA)
- **Cubierta exterior**: Bajo humo y sin halógenos (LSZH)

## 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

**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 alimentación con resistencia al fuego mejorada F120 1 kV - BS7846, BS8491, MGT, XLPE, SWA, LSZH - 25 mm² a 400 mm² - Dimensiones

| Referencia | Conductor Size (mm2) | No Of Cores | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Helios | Gland Size | Solace | Themis |
|---|---|---|---|---|---|---|---|---|---|
| FPE2X25 | 25 | 2 | 7/2.14 | 29 | 1640 | FPC2732 | 32 | 1BC2732HT | NONE |
| FPE3X25 | 25 | 3 | 7/2.14 | 31.1 | 2070 | FPC2732 | 32 | 1BC2732HT | NONE |
| FPE4X25 | 25 | 4 | 7/2.14 | 33.4 | 2410 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE5X25 | 25 | 5 | 7/2.14 | 35.7 | 2810 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE2X35 | 35 | 2 | 7/2.52 | 31.9 | 2130 | FPC2732 | 32 | 1BC2732HT | NONE |
| FPE3X35 | 35 | 3 | 7/2.52 | 33.5 | 2480 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE4X35 | 35 | 4 | 7/2.52 | 36.1 | 2920 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE5X35 | 35 | 5 | 7/2.52 | 39.5 | 3170 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE2X50 | 50 | 2 | 19/1.78 | 29.9 | 2030 | FPC2732 | 32 | 1BC2732HT | NONE |
| FPE3X50 | 50 | 3 | 19/1.78 | 33.2 | 2630 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE4X50 | 50 | 4 | 19/1.78 | 37.1 | 3280 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE5X50 | 50 | 5 | 19/1.78 | 41.8 | 3850 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE2X70 | 70 | 2 | 19/2.14 | 33.3 | 2580 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE3X70 | 70 | 3 | 19/2.14 | 37 | 3400 | FPC3238 | 40 | 1BC3238HT | NONE |
| FPE4X70 | 70 | 4 | 19/2.14 | 45.5 | 4570 | FPC3846 | 50 | 1BC4551HT | 2BC038048HT |
| FPE5X70 | 70 | 5 | 19/2.14 | 49.5 | 5670 | FPC3846 | 50 | 1BC4551HT | 2BC038048HT |
| FPE2X95 | 95 | 2 | 19/2.52 | 37.2 | 3440 | FPC3238 | 50 | 1BC3238HT | NONE |
| FPE3X95 | 95 | 3 | 19/2.52 | 41.2 | 4550 | FPC3846 | 50S | 1BC3845HT | 2BC038048HT |
| FPE4X95 | 95 | 4 | 19/2.52 | 46.4 | 5720 | FPC4651 | 50 | 1BC4551HT | 2BC038048HT |
| FPE5X95 | 95 | 5 | 19/2.52 | 52.4 | 6950 | FPC5157 | 50 | 1BC5158HT | 2BC048058HT |
| FPE2X120 | 120 | 2 | 37/2.03 | 39.9 | 4050 | FPC3846 | 50S | 1BC3845HT | 2BC038048HT |
| FPE3X120 | 120 | 3 | 37/2.03 | 44.4 | 5410 | FPC3846 | 50S | 1BC3845HT | 2BC038048HT |
| FPE4X120 | 120 | 4 | 37/2.03 | 51.2 | 7270 | FPC5157 | 50 | 1BC5158HT | 2BC048058HT |
| FPE2X150 | 150 | 2 | 37/2.25 | 43.1 | 4740 | FPC3846 | 50S | 1BC3845HT | 2BC038048HT |
| FPE3X150 | 150 | 3 | 37/2.25 | 49.3 | 6800 | FPC4651 | 50 | 1BC4551HT | 2BC048058HT |
| FPE4X150 | 150 | 4 | 37/2.25 | 55.7 | 8580 | FPC5157 | 63S | 1BC5158HT | 2BC048058HT |
| FPE2X185 | 185 | 2 | 37/2.52 | 48.1 | 6050 | FPC4651 | 50 | 1BC4551HT | 2BC048058HT |
| FPE3X185 | 185 | 3 | 37/2.52 | 53.7 | 8140 | FPC5157 | 63S | 1BC5158HT | 2BC048058HT |
| FPE4X185 | 185 | 4 | 37/2.52 | 60.8 | 10300 | FPC5765 | 63 | 1BC5865HT | 2BC058070HT |
| FPE2X240 | 240 | 2 | 61/2.25 | 52.4 | 7390 | FPC5157 | 50 | 1BC5158HT | 2BC048058HT |
| FPE3X240 | 240 | 3 | 61/2.25 | 58.8 | 10040 | FPC5765 | 63 | 1BC5865HT | 2BC058070HT |
| FPE4X240 | 240 | 4 | 61/2.25 | 66.5 | 12800 | NONE | 75S | 1BC6571HT | 2BC058070HT |
| FPE2X300 | 300 | 2 | 61/2.52 | 56.5 | 8760 | FPC5157 | 63S | 1BC5158HT | 2BC048058HT |
| FPE3X300 | 300 | 3 | 61/2.52 | 63.5 | 12020 | FPC5765 | 63 | 1BC5865HT | 2BC058070HT |
| FPE4X300 | 300 | 4 | 61/2.52 | 72.1 | 15410 | NONE | 75 | NONE | 2BC070083HT |
| FPE3X400 | 400 | 3 | 61/2.85 | 70.1 | 14820 | NONE | 75S | 1BC6571HT | 2BC070083HT |
| FPE4X400 | 400 | 4 | 61/2.85 | 81.3 | 19910 | NONE | 90 | NONE | 2BC070083HT |

**Multicore armoured 90 °C thermosetting insulated cables. Reproduced from *BS7671:2018 Wiring Regulations***

## TABLE 4E4A

### CURRENT-CARRYING CAPACITY (amps)

Ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°C

| Conductor cross- sectional area | Reference Method C (clipped direct) | | Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical) | | Reference Method D (direct in ground or in ducting in ground, in or around buildings) | |
|---|---|---|---|---|---|---|
| | 1 two-core cable single-phase AC or DC | 1 three- or 1 four- core cable, three- phase AC | 1 two-core cable single-phase AC or DC | 1 three- or 1 four- core cable, three- phase AC | 1 two-core cable single-phase AC or DC | 1 three- or 1 four- core cable, three- phase AC |
| mm2 | (A) | (A) | (A) | (A) | (A) | (A) |
| 1.5 | 27 | 23 | 29 | 25 | 25 | 21 |
| 2.5 | 36 | 31 | 39 | 33 | 33 | 28 |
| 4 | 49 | 42 | 52 | 44 | 43 | 36 |
| 6 | 62 | 53 | 66 | 56 | 53 | 44 |
| 10 | 85 | 73 | 90 | 78 | 71 | 58 |
| 16 | 110 | 94 | 115 | 99 | 91 | 75 |
| 25 | 146 | 124 | 152 | 131 | 116 | 96 |
| 35 | 180 | 154 | 188 | 162 | 139 | 115 |
| 50 | 219 | 187 | 228 | 197 | 164 | 135 |
| 70 | 279 | 238 | 291 | 251 | 203 | 167 |
| 95 | 338 | 289 | 354 | 304 | 239 | 197 |
| 120 | 392 | 335 | 410 | 353 | 271 | 223 |
| 150 | 451 | 386 | 472 | 406 | 306 | 251 |
| 185 | 515 | 441 | 539 | 463 | 343 | 281 |
| 240 | 607 | 520 | 636 | 546 | 395 | 324 |
| 300 | 698 | 599 | 732 | 628 | 446 | 365 |
| 400 | 787 | 673 | 847 | 728 | | |

*1.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).*
*2.Where it is intended to group a cable in this tablewith 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).*

## TABLE 4E4B

### VOLTAGE DROP (per ampere per metre)

Conductor operating temperature:90°C

| Conductor cross sectional area | Two-core cable DC | Two-core cable, single-phase AC | | | Three- or four-core cable, three-phase AC | | |
|---|---|---|---|---|---|---|---|
| (mm2) | (mV/Nm) | (mV/Nm) | | | (mV/Nm) | | |
| 1.5 | 31 | 31 | | | 27 | | |
| 2.5 | 19 | 19 | | | 16 | | |
| 4 | 12 | 12 | | | 10 | | |
| 6 | 7.9 | 7.9 | | | 6.8 | | |
| 10 | 4.7 | 4.7 | | | 4.0 | | |
| 16 | 2.9 | 2.9 | | | 2.5 | | |
| | | R | X | Z | R | X | Z |
| 25 | 1.85 | 1.85 | 0.160 | 1.90 | 1.60 | 0.140 | 1.65 |
| 35 | 1.35 | 1.35 | 0.155 | 1.35 | 1.15 | 0.135 | 1.15 |
| 50 | 0.98 | 0.99 | 0.155 | 1.00 | 0.86 | 0.135 | 0.87 |
| 70 | 0.67 | 0.67 | 0.150 | 0.69 | 0.59 | 0.130 | 0.60 |
| 95 | 0.49 | 0.50 | 0.150 | 0.52 | 0.43 | 0.130 | 0.45 |
| 120 | 0.39 | 0.40 | 0.145 | 0.42 | 0.34 | 0.130 | 0.37 |
| 150 | 0.31 | 0.32 | 0.145 | 0.35 | 0.28 | 0.125 | 0.30 |
| 185 | 0.25 | 0.26 | 0.145 | 0.29 | 0.22 | 0.125 | 0.26 |
| 240 | 0.195 | 0.20 | 0.140 | 0.24 | 0.175 | 0.125 | 0.21 |
| 300 | 0.155 | 0.16 | 0.140 | 0.21 | 0.140 | 0.120 | 0.185 |
| 400 | 0.120 | 0.13 | 0.140 | 0.190 | 0.115 | 0.120 | 0.165 |

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