# CERVIFLAM EB Z1C4Z1-K 300/500V CPR
## Cables for Intrinsically Safe circuits

## Construction

| | |
|---|---|
| **Conductor** | Flexible bare copper wires |
| | Class V Acc. to UNE-EN 60228 |
| **Insulation** | Halogen free compound |
| | Identification: HD 308 S2 (See attached table) |
| **General assembly** | Insulated conductors laid up together in concentric layers |
| **Screen** | Bare copper wire braid |
| | Coverage: 60% |
| **Outer sheath** | Halogen free compound |
| | Color: Light blue |

## Technical characteristics

| | |
|---|---|
| **Operating voltage** | 300/500 V |
| **Test Voltage** | 2000V |
| **Operating T[a]** | Fixed installation: -15°C a +70°C |
| | During installation: 0°C Mínimo |
| | Short-circuit (Max. 5 seg): 160°C |
| **Min. bending radius** | 8xD |
| **Capacitance** | 150 pF/m Max. |
| **Inductance** | 1 mH/Km Max. |
| **L/R ratio** | 25 µH/Ohm Max. (Cross sectional areas up to 1mm2, including) |
| | 40 µH/Ohm Max. (Cross sectional areas of 1,5mm2) |
| | 60 µH/Ohm Max. (Cross sectional areas of 2,5mm2) |

## Application

Shielded flexible instrumentation and control cable, for locations where a good electromagnetic protection is necessary and and no halogen emission in case of fire is required.

Especially recommended for use in installations in potentially explosive atmospheres in Intrinsically Safe circuits (protection mode - i - ), in accordance with the specified requirements for cables in this type of installations in the standards IEC / EN 60079-14 and IEC / EN 60079-25.

* CPR:

Cable suitable for installation under the requirements of the CPR (Construction Product Regulation (EU) N ° 305/2011) in accordance with the classification (Euroclass) specified in this document.

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## Standards / Properties

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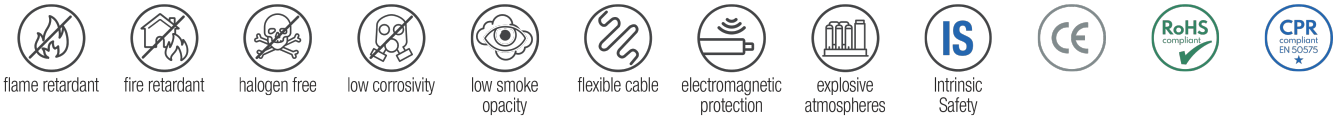
|---|---|
| **Ref. for construction/drawing** | Special design, based on EN 50288-7 |
| **Reference standards** | EN 60079-14 / IEC 60079-14 / VDE 0165-1 - (Section 16.2.2) |
| | EN 60079-25 / IEC 60079-25 / VDE 0170-10-1 (Section 9) |
| **Flame Retardant** | UNE-EN 60332-1 (IEC 60332-1) |
| **CPR Classification (Euroclass)** | Eca (According to UNE-EN 50575) |
| **Other fire standards:** | |
| **Fire Retardant** | UNE-EN 60332-3 (IEC 60332-3) |
| **Halogen free** | UNE-EN 60754-1 (IEC 60754-1) |
| **Low corrosivity** | UNE-EN 60754-2 (IEC 60754-2) |
| | (pH >= 4,3 ; conductivity =< 10µS/mm) |
| **Low smoke emission** | UNE-EN 61034 (IEC 61034) |



## Constructive data

| Code | NxS (mm2) | Ø (mm) | Weight (kg/km) | R at 20°C (Ohm/Km) |
|---|---|---|---|---|
| 43005406 | 2x1 | 7.1 | 67 | 19.5 |
| 43008306 | 3G1 | 7.5 | 84 | 19.5 |
| 43013206 | 4G1 | 8.1 | 103 | 19.5 |
| 43016106 | 5G1 | 8.7 | 122 | 19.5 |
| 43018006 | 6G1 | 9.4 | 138 | 19.5 |
| 43021306 | 8G1 | 10.4 | 180 | 19.5 |
| 43023606 | 10G1 | 11.9 | 215 | 19.5 |
| 43026006 | 12G1 | 12.3 | 247 | 19.5 |
| 43028506 | 16G1 | 13.7 | 313 | 19.5 |
| 43033206 | 24G1 | 16.9 | 459 | 19.5 |
| 43036806 | 30G1 | 17.1 | 496 | 19.5 |
| 43005506 | 2x1.5 | 7.7 | 82 | 13.3 |
| 43008406 | 3G1.5 | 8.1 | 103 | 13.3 |
| 43013306 | 4G1.5 | 8.8 | 127 | 13.3 |
| 43016206 | 5G1.5 | 9.5 | 153 | 13.3 |
| 43018106 | 6G1.5 | 10.3 | 175 | 13.3 |
| 43019606 | 7G1.5 | 10.3 | 194 | 13.3 |
| 43021406 | 8G1.5 | 11.7 | 238 | 13.3 |
| 43026106 | 12G1.5 | 13.5 | 319 | 13.3 |
| 43028606 | 16G1.5 | 15.1 | 409 | 13.3 |
| 43033306 | 24G1.5 | 18.7 | 606 | 13.3 |
| 43034506 | 25G1.5 | 18.9 | 629 | 13.3 |
| 43036806 | 30G1 | | | |

### Legend

| | |
|---|---|
| **Code** | Cervi codification |
| **NxS (mm2)** | Number of conductors x Section (mm2) |
| **Ø (mm)** | Aprox. outer diameter (mm) |
| **Weight (kg/km)** | Approximate cable weight (kg/km) |
| **R at 20°C (Ohm/Km)** | Conductor resistance at 20ºC (Ohm/km) |

## Colour table

| N° Conductors | Insulation colour |
|---|---|
| 2x | Blue, Brown |
| 3x | Brown, Black, Grey |
| 3G | Blue, Brown, Yellow/Green |
| 4x | Blue, Brown, Black, Grey |
| 4G | Brown, Black, Grey, Yellow/Green |
| 5G | Blue, Brown, Black, Grey, Yellow/Green |
| > 5 (G) | Black numbered + Yellow/Green |
| > 5 (x) | Black numbered |