



Reference: 79466453

CONTACT

Markets and Products Information
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SHIELDED MULTICORES POWER CABLES

FLAMEX® EN 50264-3-2 600V MMS multicores shielded power and control cables are used for protected installations where enhanced electrical screening (EMC) is required. This product range is recommended for installations and connections in narrow spaces where an optimal bending radius is required. FLAMEX® cables are designed to withstand tough working conditions (oil, ozone, temperature variation, etc.). 120°C conductor temperature is allowed for a 20,000 hours cumulative working time.

STANDARDS

Product EN 50264-3-2; EN 45545 - HL3; IEC 60228

DESIGN

1. Conductor

Flexible stranded tinned copper class 5 acc. to IEC 60228
 Optional halogen-free separator tape

2. Insulation

Cross-linked compound type EI 109 acc. to EN 50264-1
 Colour: black (or green/yellow if cable type is G)
 Assembly (option): halogen free foil could be served

3. Screen

Copper wire braid acc. to EN 50264-3-2, halogen-free separator

4. Outer sheath

Cross-linked compound type EM 104 acc. to EN 50264-1
 Oil, diesel, ozone and UV resistant
 Colour: black

Example of marking: FLAMEX EN 50264-3-2 600V n X (or G) ... (mm²) MM S (N)
 HXCSLOE | LYNXEO | WW-YYYY

GUIDE TO USE

- Cabling rules are given in EN 50343 and EN 50355
- Permissible current carrying capacities: values and calculation method are given in EN 50343
- Bending radius:
- Static use: 4 x outer cable diameter
- For installation and occasional movements: 8 x outer cable diameter



Conductor flexibility
 Flexible class 5



Halogen free
 EN 60754-1 & EN 60684-2



Rated Voltage U₀/U
 (Um)
 0.6/ 1 (1.2) kV



Flame retardant
 EN 60332-1-2



Fire retardant
 EN IEC 60332-3-24
 (cat C); EN IEC 60332-3-25
 (EN50305)



Smoke density
 EN/IEC 61034-2



Gases toxicity
 EN 50305-9.2



Electro magnetic
 interference
 resistance

CHARACTERISTICS**Construction characteristics**

| | |
|------------------------|-------------------------|
| Conductor material | Tin plated copper |
| Conductor flexibility | Flexible class 5 |
| Insulation | Cross-linked compound |
| Screen | Tinned copper braid |
| Outer sheath | Cross-linked compound |
| Halogen free | EN 60754-1 & EN 60684-2 |
| With Green/Yellow core | No |

Dimensional characteristics

| | |
|-------------------------|-------------------|
| Number of cores | 3 |
| Conductor cross-section | 4 mm ² |
| Minimum outer diameter | 11.5 mm |
| Maximum outer diameter | 12.5 mm |
| Approximate weight | 226 kg/km |
| Conductor diameter | - mm |

Electrical characteristics

| | |
|---|-----------------|
| Rated Voltage U ₀ /U (U _m) | 0.6/ 1 (1.2) kV |
|---|-----------------|

Usage characteristics

| | |
|--|--|
| Flame retardant | EN 60332-1-2 |
| Fire retardant | EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305) |
| Smoke density | EN/IEC 61034-2 |
| Gases toxicity | EN 50305-9.2 |
| Electro magnetic interference resistance | - |
| Operating temperature, range | -40 ... 90 °C |
| Max. conductor temperature in service | 90 °C |
| Overload maximum core temperature | - °C |
| Chemical resistance | Excellent |
| Ozone resistance | Yes |
| U.V resistance | Yes |
| Short-circuit max. conductor temperature | 200 °C |