



Reference: 79465354

CONTACT

Markets and Products Information
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MULTICORES POWER CABLES

FLAMEX® EN 50264-3-2 MM multicores power and control cables are used for fixed and protected installations. This product range is recommended for 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

3. 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 (G) ... (mm²) MM (N)
 HXSLOE | 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: 5 x outer cable diameter



Conductor flexibility
 Flexible class 5



Halogen free
 EN 60754-1 & EN 60684-2



Rated Voltage U_o/U_m
 (Um)
 0.6/ 1 (1.2) kV



Flame retardant
 IEC 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



Operating temp.
 -40 ... 90 °C

CHARACTERISTICS**Construction characteristics**

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

Dimensional characteristics

| | |
|-------------------------|---------------------|
| Number of cores | 4 |
| Conductor cross-section | 2.5 mm ² |
| Minimum outer diameter | 9.4 mm |
| Maximum outer diameter | 10.0 mm |
| Approximate weight | 178 kg/km |
| Conductor diameter | - mm |

Electrical characteristics

| | |
|--------------------------------------|-----------------|
| Rated Voltage U _o /U (Um) | 0.6/ 1 (1.2) kV |
|--------------------------------------|-----------------|

Usage characteristics

| | |
|--|--|
| Flame retardant | IEC 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 |
| Operating temperature, range | -40 ... 90 °C |
| Chemical resistance | Excellent |
| Ozone resistance | Yes |
| U.V resistance | Yes |
| Max. conductor temperature in service | 90 °C |
| Short-circuit max. conductor temperature | 200 °C |