# woertz

## Product data sheet

### 48250OR - Flat cable FE180/E90 3G2.5 orange



Flat cable Woertz FE180/E30/E90 3x2.5 mm² FR/LS0H orange LNPE (rodent repellent) Fire protection cable with non-critical behavior (according to VKF guideline 14-15) for use in horizontal and vertical escape routes. Applicable in public buildings and facilities such as hospitals, hotels, offices, museums or other commercial buildings (KBOB). Also recommended for facilities with increasing numbers of people in increasingly confined spaces such as airports, train stations (above and below ground) or shopping malls (KBOB). Within the Woertz fire protection cabling systems also ideally suited for the high demands of infrastructure buildings such as tunnels, underpasses, parking garages or subway stations.

| Characteristics | |
| --- | --- |
| Base Unit | Meter |
| availability | Delivery in 4 weeks |
| group | 170000 |
| Packaging unit | - |
| country of origin | CH |
| Customs tariff number | 8544.4992 |
| Weight (g) | 247 g |
| Copper weight (g) | 72 g |

| Technical data | |
| --- | --- |
| Construction (mm²) | 3x2.5 mm² |
| Dimensions width x height (mm) | 24x6 mm |
| Halogen free | Yes |
| Cable type | Fire safety flat cable |
| International designation | N1ZZ1H2-U |

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|---|---|
| Reaction to fire classification | B2ca s1 d0 a1 |
| Fire behavior | Cables with non-critical behavior (according to VKF 14-15) |
| Cross section (mm²) | 2.5 mm² |
| Copper conductor | Wire KL1 EN60228 |
| Conductor resistance (ohm/km) | 7,41 ohm/km |
| cores insulation | Flame retardant, high temperature resistant |
| Cores colors | brown, green/yellow,blue |
| Sheat insulation | Polyolefin flame retardant |
| Sheath color | Orange |
| Rodent protection | rodent repellent |
| Longitudinal watertightness | < 1 m/14 days EN60794-1-2-F5B |
| Operating Temperature (°C) | -25 till 90 °C |
| Installation temperature min. (°C) | 5 °C |
| Nominal voltage (VAC) | 600/1000 VAC |
| Test voltage | 4 kV/50Hz |
| Fire load (kWh/m) | 0,86 |
| Halogen free acc. to | IEC/EN60754-1/2 |
| Flame retardant according to | IEC/EN60332-1-2 |
| Minimal smoke emision acc. to | IEC/EN 61034-2 |
| Low fire propagation acc. To | IEC/EN 60332-3-24 |
| Insulation integrity | FE180 (IEC 60331) / PH120 (EN50200) |

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## Product accessories

**48510/08/NS  -  Flat cable end piece 5G2.5mm² FE180 E30/E90 3G2.5mm²**

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**48510/08  -  Cable end piece for FK power IP 5G2.5mm² FE180 3G2.5mm² IP68**

Cable end piece for flat cable power IP68 and FE180 3/5G

**48961  -  End caps FC E90 3G2.5/3G4.0/3G6.0**

End caps E90 IP66/68 for flat cable FE180 E90 3G2.5mm 2 /3G4.0mm 2 /3G6.0mm 2

**49386 E90  -  Riser clamp E90**

Max. Bride load: 50kg. For Woertz fire safety flat cable: Woertz FE180 3G2.5 and 4 mm², Woertz FE180 5G2.5, 4 6 mm². For Woertz flat cable: Woertz Technofil 5G2.5 1.5 mm², Woertz power 5G2.5 mm², Woertz Power IP 5G2.5 mm² 6 mm², Woertz combi 5G2.5 mm² 2x1.5 mm², Woertz Dali IP 5G2.5 mm² 2x1.5 mm², Woertz Dali 3/5G2.5 mm² 2x1.5 mm², Woertz 5G4 mm², Woertz 7G2.5 mm².

**49370  -  Cable fastening clamp 3G2.5/4.0mm2 E90**

Mounting distance: 800mm

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## Product systems

**FE180 E30/E90 3G2.5 mm²**

Woertz Fire Safety System FE180 E30/E90 3G2.5 mm² for power supply of safety-relevant elements, such as emergency and escape route lighting, smoke extraction systems or fire department elevators.