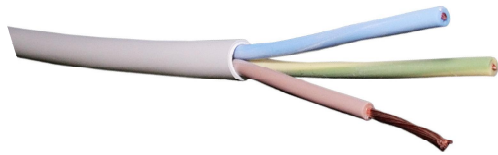


# SECURI-FLAME F FE180/PH90

Fire resistant, halogen-free cable 300/500V



**COFERRO  
CABLES**

## Technical data:

### Temperature range:

Fixed installation: -30°C up to 80°C

During installation: -10°C up to 50°C

Operating voltage:  $U_0/U=300/500V$

Test voltage: 2000 V AC

Insulation resistance (minimum):  
100MΩ\*km

Insulation resistance constant  
at 20°C:  $k_i > 1500 M\Omega \cdot km$

Min. bending radius:  $8 \times \varnothing$

## Construction:

**Cores:** bare copper, conductor class 5 acc to: EN 60228, IEC 60228

**Insulation:** special ceramic silicone rubber

**Core colors:**

without green/yellow earth conductor (-O)

2- core – blue, brown

3- core – brown, black, grey

4-core – blue, brown, black, grey

with green/yellow earth conductor (-J)

3-core – green/yellow, blue, brown

4-core - green/yellow, brown, black, grey

**Outer sheath:** halogen-free polymer compound

**Outer sheath colour:** grey, RAL 7035

## Application:

Halogen-free fire resistant cables are designed for installations in places where it is necessary to ensure operation of devices under fire conditions. They are recommended for emergency lighting installations, smoke extraction systems, alarm systems, signaling systems, sound warning and control systems, fire alarm signaling and automation and other safety ensuring circuits.



internal application



PN-EN 60332-1



PN-EN 60332-3  
IEC 60332-3



halogen-free



insulation resistance  
to fire 180min



PH90 fire  
integrity function



low smoke emission



UV resistance

n x mm <sup>2</sup>	Diameter [mm]	Cable weight [kg/km]	Cu [kg/km]
2x0,75	5,8	37	14,4
2x1,0	6,4	47	19,2
3x0,75	6,1	48	21,6
3x1,0	6,8	61	28,8
4x0,75	6,7	60	28,8
4x1,0	7,4	76	38,4

Cable Factory BITNER reserve the right to modify the specifications without prior notice

## Tests:

Flame test for a single insulated cable: EN 60332-1, IEC 60332-1

Flame test for vertically-mounted bunched cables: EN 60332-3-22, IEC 60332-3 cat.A

Emission of corrosive gases during burning: IEC 60754 - 2, PN-EN 50267

Smoke density emission during burning : PN-EN 61034-2, IEC 61034-2

Insulation resistance to long term fire exposure FE180: IEC 60331-11, IEC 60331-21, IEC 60331-23

Fire integrity function of cable installations (PH90): PN -EN 50200

## Cable characteristics:

- fire resistant
- halogen-free
- flame retardant
- no corrosive gases (acidity pH > 4,3; conductivity < 10 uS/mm)
- low smoke emission (light transmittance over 60%)
- increased insulation resistance (FE180)
- fire integrity function (PH90)
- low fire load (calorific value)

**COFERRO CABLES A/S**

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