

SECURI-FLAME F-S FE180/PH90

Fire resistant, halogen-free cable 300/500V



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):

100M Ω *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 2 acc to: EN 60228, IEC 60228

Insulation: special ceramic silicone rubber

Core colors:

1 - Pair – white, blue

2 - Pair – white, blue ; numbered

Screen: aluminium backed polyester tape, tinned copper drain wire, multi-stranded (7x0,3) - 0,5 mm²

Wrapping: polyester tape

Outer sheath: halogen-free polymer compound

Outer sheath colour: orange

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



low smoke emission

$n \times mm^2$	Diameter [mm]	Cable weight [kg/km]	Cu [kg/km]
1x2x0,75	5,8	42	19,2
2x2x0,75	7,4	71	33,6

Coferro 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 FE 180: IEC 60331-11, IEC 60331-21, IEC 60331-23

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)
- low fire load (calorific value)