



JE-H(St)H FE180/E30..E90

Fire Alarm Cables



EN 50265-2-1 ; IEC 60332-1

RoHS , REACH & CE Directives



Ambient installation T°
C range
0 + 50 °C



Operating temp.
-20 + 60 °C



Storage temperature
range
-20 + 70 °C



Flame retardant
IEC 60332-1



Smoke density

Applications

JE-H(St)H FE180/E30..E90 is a specialized halogen-free fire alarm installation cable, typically rated for E30-E90 functional integrity in the event of fire. Used as a communication and fire alarm cable to connect systems, ensuring functionality for 180 minutes (insulation retention) or E90 (90 minutes functional integrity) in fire conditions. Halogen-free, low smoke development, and no fire propagation. Suitable for fixed installation in dry and damp rooms, indoors, and in concrete. It is often used in public buildings, hospitals, and subways. It has an electrostatic shield (St) to protect against electromagnetic interference. This cable is frequently used in fire alarm systems, emergency lighting, and intercoms, designed to ensure safety in buildings.

Static screened installation cables for telecommunication purposes. The static screen prevents strong interference impulse. Suitable for fixed installation everywhere, where in case of fire human life

and material assets are to be protected and safety consciousness take a special significance, e.g. in industrial complexes, public buildings, hotels, airports, under ground railway networks, hospitals.

CE-The product is confirmed with the EC Low-Voltage Directive 2014/35/EU

JE-H(St)H FE180/E30..E90 Construction:

Conductor material:

Core Insulation:

Core wrapping

Screening

Outer sheath

Sheath color

Solid bare copper, single wire

Halogen free, cross-linked polymer HI1 (flame retardant E90

With special polyester and fibre tape

With alu-laminated polyester tape and solid copper drain wire

Halogen-free , flame retardant HM2

Flame retardant according to EN 60332-1-2
Orange (RAL 2003)

Properties:

FE 180 insulation integrity

for 180 minutes acc. to IEC 60331
under direct flame propagation for the test period of 180 minutes.

E 30 Functionality

Of electrical cable system for minimum 30 minutes. The functionality for 30 minutes assures when persons and animals are to be saved from a burning building. 30 minutes secures the functional performance of the fire warning and alarm systems, safety and spare lighting, passenger lifts with evacuation circuits except the cables which are installed within the ladder shafts and engine rooms.

E90 Functionality

Of electrical cable systems for minimum 90 minutes. The functionality for 90 minutes assures the functional performance of water-pressure rising stations for the supply to avoid smoke and heat in safety stairs and inner rooms, ladder shafts and engine rooms for fire brigade lifts, emergency lifts, for sickbeds in hospitals and the fire brigade lifts.

Technical Data:

Insulation resistance:

Loop resistance max.

Mutual capacitance at 800 Hz max.

Capacitance unbalance for 100 m max.

Operating voltage:

Test voltage at 50 Hz

core / core

core / screen

Temperature range (for flexible use)
(fixed installation)

Bending radius

in motion

Minimum

MΩ x km min. 100

Ω / km 73.2

nF/km 120

pF 200

225 V

500 V

2000 V

-5°C to +50 °C

-30°C to +70 °C

15 x OD (overall diameter)

7.5 x OD

JB-Y(St)Y

Dimensions:

Cable Description	Nominal Cable Diameter (mm)	Thickness of the outer sheath ca. mm	Nominal Cable Weight (kg/km)	packaging
2 x 2 x 0.8	7.0	1	60-65	500
4 x 2 x 0.8	10.6	1	106-112	500



The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.