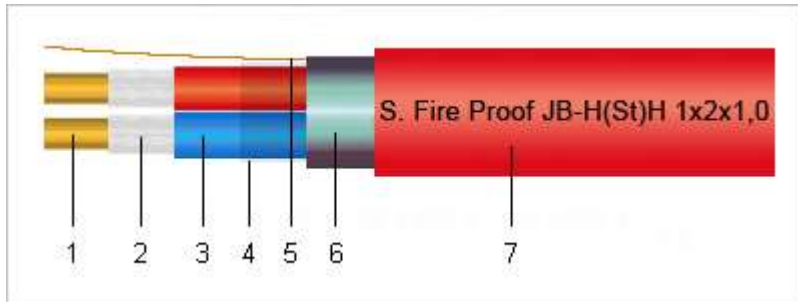


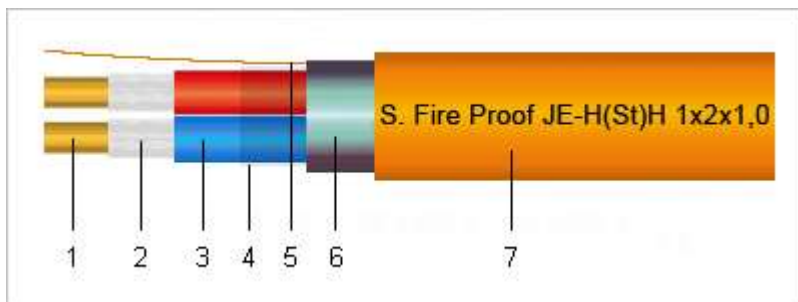
# DATASHEET

## JB-H(St)H Lg, JE-H(St)H Lg Fire proof cables (180 min)



### Structure

- > 1 Solid bare copper conductor
- > 2 MICA tape wrapped layer
- > 3 Halogen-free polyolefin (FRNC) core insulation  
Cores twisted in pairs, pairs twisted in layers (Lg) (Twisting direction Z axis)  
(The 2-paired versions: star-quad cable design)
- > 4 Polyester plastic foil (PET) wrapping over the inside
- > 5 Solid plain copper drain wire
- > 6 Polyester plastic-coated aluminium foil (AL/PET) electrostatic screening
- > 7 Halogen-free polyolefin (FRNC) outer sheath, red colour RAL 3000  
with imprint: "JB-H(St)H ...x2x... Lg, S.Fire Proof cable (P120) (PH120) 180 min,  
Lot number, Meter number"



### Structure

- > 1 Solid bare copper conductor
- > 2 MICA tape wrapped layer
- > 3 Halogen-free polyolefin (FRNC) core insulation  
Cores twisted in pairs, pairs twisted in layers (Lg) (Twisting direction Z axis)  
(The 2-paired versions: star-quad cable design)
- > 4 Polyester plastic foil (PET) wrapping over the inside
- > 5 Solid plain copper drain wire
- > 6 Polyester plastic-coated aluminium foil (AL/PET) electrostatic screening
- > 7 Halogen-free polyolefin (FRNC) outer sheath, orange colour RAL 2009  
with imprint: "JE-H(St)H ...x2x... Lg, S.Fire Proof cable (P120) (PH120) 180 min,  
Lot number, Meter number"

# DATASHEET

## **JB-H(St)H Lg, JE-H(St)H Lg** Fire proof cables (180 min)

### **Dimensions and colours**

Conductor structure nominal	Outer Ø nominal [mm]	Conductor resistance at 20 °C [Ω/100m]	CU weight nominal [kg/km]	Weight approx. [kg/km]
1x2x0,8 mm	6,8	<39,0	13,0	42
2x2x0,8 mm	8,0	<39,0	21,7	62
4x2x0,8 mm	11,0	<39,0	39,8	91
1x2x1,0 mm	7,4	<25,0	19,9	54
2x2x1,0 mm	8,6	<25,0	33,0	71
4x2x1,0 mm	12,5	<25,0	63,0	118
1x2x1,5 mm <sup>2</sup>	8,4	<13,5	31,5	79
2x2x1,5 mm <sup>2</sup>	9,8	<13,5	59,0	108
1x2x2,5 mm <sup>2</sup>	9,4	<7,5	49,0	116
2x2x2,5 mm <sup>2</sup>	11,0	<7,5	96,0	150

Pairs	Colour
1	
2	
3	
4	

### **Application**

Fire proof cables are designed to maintain circuits integrity during a fire and keep emergency systems working. These cables are suitable for signal transmission within fire protection systems for control, measuring, data and regulation technology with properties limiting the generation and spread of fire and smoke.

JB-H(St)H is used in the design and installation of fire alarm systems.


Fire proof cables are used where the fire safety is utmost important and in applications where (P120) (PH120) 180 min maintenance of function must be assured in the event of fire.

These cables are preferably used for indoor installation, but also in the open air for fixed installation on outer walls of buildings - provided they are protected against direct exposure to the sun.

# DATASHEET

## JB-H(St)H Lg, JE-H(St)H Lg Fire proof cables (180 min)

### Properties

- > Solid bare copper conductor with MICA tape, flame retardant, non-corrosive (FRNC) polyolefin insulated cores, AL/PET foil screened, FRNC polyolefin outer sheathed cables.
- > Cables are in accordance with standards:
  - EN 50200:2007 fire resistance;
  - EN 60331-23 horizontal flame, integrity test;
  - EN 60332-1-2 vertical flame spread, self-extinguishing capability;
  - EN 60754-2 releases gases, acidity, conductivity;
  - EN 61034-2 smoke density, transparency;
  - EN 50399 heat release, smoke production, flaming droplets/particles;
  - EN 50575:2014 reaction to fire;
  - EN 13501-6 fire classification;
  - DIN VDE 0815 cable construction and core identification.
- > The special characteristic of these fire proof cables is the muscovite-based MICA tape with 30% overlap is applied directly over the conductors to ensure the best possible enhanced fire performance. MICA component is non-toxic.
- > AL/PET foil electrostatic screening, sign of (St), protects the transmission circuits against external electrical interferences. The drain wire is in contact with the inner aluminum surface of the foil.
- > The fire proof cables are REACH compliant as well as meeting the requirements of other legislation such as the RoHS Directive. The materials used in these cables are cadmium-free and contain no silicone and do not represent health hazards and minimize the environmental impact.
- > The products are conformed with the Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council ensures that electrical equipment within certain voltage limits provides a high level of protection for European citizens.
- >  Products meet all the legal requirements for CE marking and can be sold throughout the European Economic Area (EEA).

### Technical data

Peak working voltage:	225 V
Working voltage:	24 V
Test voltage:	800 V eff. (Core/core, core/screening, AC 50 Hz)
Temperature range:	Fixed installation -30 °C to +70 °C
Insulation resistance:	Min. 100 MΩ x km
Mutual capacitance:	At 800 Hz max. 100 nF / km
Minimum bending radius:	Fixed installation 10 x cable Ø

### Packaging

In coil or drum.