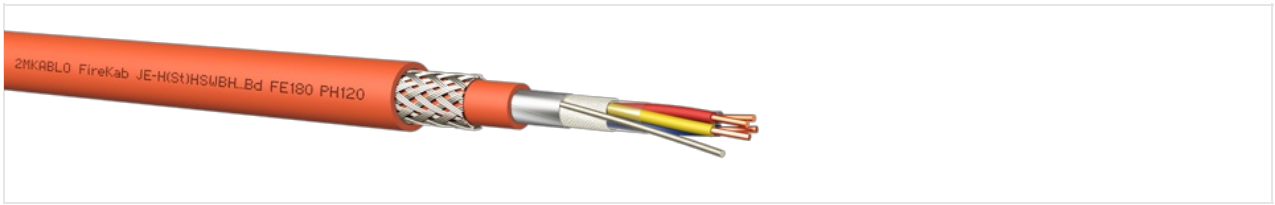
# FireKab JE-H(St) HSWBH...Bd FE180 PH120




## Areas of Use

FireKab fire resistant cables are used for fire alarm systems, power supply or control of equipment that needs to function during a fire such as warning, emergency lighting, evacuation and monitor systems. The place of usage is intelligent or semi-intelligent buildings where dense human population or valuable goods are found. These can be hospitals, cinemas, theatres, schools, shopping centers, airports, factories, etc. FireKab products have low smoke density, are halogen-free and they don't emit poisonous gases.

## Cable Construction

| | |
|---|---|
| **Conductor** | Annealed Solid Copper (IEC/EN 60228) |
| **Core Colors** | Blue/Red, Grey/Yellow, Green/Brown, White/Black - VDE 0815 |
| **Lay-up** | 4 pairs laid up to a bundle, bundles idendified by spiral numbered or colored polyester tape, bundles laid up in layers. (Two pairs laid up as a star quad) |
| **Separator** | PET Foil |
| **Drain Wire** | 0.80 mm Solid Tinned Copper |
| **Screen** | Al-PET Foil |
| **Inner Sheath** | HFFR, (EN 50290-2-27, VDE 0207 HM2) |
| **Armour** | Galvanized Steel Wire Braiding (70% Coverage) |
| **Outer Sheath** | HFFR (EN 50290-2-27), RAL 3000 - Red or RAL 2004 - Orange |
| **Insulation** | Fire Resistant Silicon Rubber (EN 50363-1, BS 7655 EI2) |
| **Flame Barrier** | Fiber Glass Tape |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 300 V |
| **Test Voltage** | Core - Core 500 V; Core - Screen 2000 V |
| **Conductor Resistance** | 0.80mm - ≤36.6 Ω/km; 1.00 mm² - ≤18 Ω/km; 1.50 mm² - ≤12.1 Ω/km |
| **Insulation Resistance** | >500 M.Ωxkm |
| **Capacitance Unbalance (800 Hz)** | ≤200 pF/100m |
| **Capacitance (@800Hz)** | ≤120 nF/km |
| **Temperature Range** | Fixed: -30 °C.....+90 °C, Flexible: -5 °C .....+60 °C |
| **Flame Retardancy** | IEC/EN 60332-1, IEC/EN 60332-3-24 |
| **Fire Resistance** | IEC 60331-21, EN 50200 PH120 |
| **Smoke Density** | IEC/EN 61034-2 |
| **Amount of Halogen Acid Gas** | IEC/EN 60754-1 |
| **Corrosive Gases Measurement** | IEC/EN 60754-2 |
| **Min. Bending Radius** | Fixed: 10 x Cable Diameter, Flexible: 15 x Cable Diameter |

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