FireKab JE-H(St)H...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)
Insulation	Fire Resistant Silicon Rubber (EN 50363-1, BS 7655 EI2)
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
Flame Barrier	Fiber Glass Tape
Drain Wire	0.80 mm Solid Tinned Copper
Screen	Al-PET Foil
Outer Sheath	HFFR (EN 50290-2-27), RAL 2004 - Orange (other colors upon request)

Technical Properties

Operating Voltage	300 V
Test Voltage	Core - Core 500 V; Core - Screen 2000 V
Insulation Resistance	>200 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: 7.5 x Cable Diameter, Flexible: 15 x Cable Diameter
Conductor Resistance	0.80mm - ≤36.6 Ω/km; 1.00 mm - ≤22.2 Ω/km; 1.50 mm² - ≤12.1 Ω/km

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.80 + 0.80	4.9	14	35

2x2x0.80 mm + 0.80 mm	5.5	23	55
4x2x0.80 mm + 0.80 mm	8.0	42	95
1x2x1.00 mm + 0.80 mm	6.2	23	60
2x2x1.00 mm + 0.80 mm	7.1	41	95
1x2x1.5 mm² + 0.80 mm	7.0	32	75
2x2x1.5 mm² + 0.80 mm	8.0	60	125

25.11.2026 14:39

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