FireKab RE-2X(St)H-PiMF/TiMF...CI



Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. HFFR types are less flammable in case of fire, mostly self-extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during a fire. Also, min.180 minutes of circuit integrity under fire conditions is achieved by its special design.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Flame Barrier	Mica Tape
Insulation	XLPE (EN 50290-2-29)
Separator	PET Foil
Individual Screen	Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire)
Lay-up	Shielded pairs / triples / quads are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Outer Sheath	Halogen free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC) (EN 50290-2-27), RAL 2004 - Orange, RAL 9005 - Black, RAL 5015 - Blue, (other colors open request)
Reference Standards	BS/EN 50288-7

Technical Properties

Operating Voltage	500 V*
Test Voltage	Core - Core: 2000 V; Core - Screen: 1000 V
Conductor Resistance	0.50 mm² - \leq 36 Ω/km; 0.75 mm² - \leq 24.5 Ω/km; 1.00 mm² - \leq 18.1 Ω/km; 1.30 mm² - \leq 14.2 Ω/km; 1.50 mm² - \leq 12.1 Ω/km; 2.50 mm² - \leq 7.41 Ω/km
Insulation Resistance	>5000 M.Ωxkm
Capacitance Unbalance (800 Hz)	≤500 pF/500m
Capacitance (@800Hz)	≤115 nF/km (Capacitance values may increase by 20% up to 4 pairs)
L/R Ratio	0.50 mm²1.00 mm² - \leq 25 µH/ Ω ; 1.30 mm²1.50 mm² - \leq 40 µH/ Ω ; 2.50 mm² - \leq 60 µH/ Ω
Temperature Range	Fixed: -40 °C+90 °C, Flexible: -5 °C+50 °C
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
Fire Resistance	IEC 60331-21
Fire Resistance Smoke Density	IEC 60331-21 IEC/EN 61034-1
Smoke Density	IEC/EN 61034-1
Smoke Density Amount of Halogen Acid Gas	IEC/EN 61034-1 IEC/EN 60754-1

06.11.2025 2:37

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