

PREVENTIVE FIRE PROTECTION

JE-H(St)H...Bd FE180

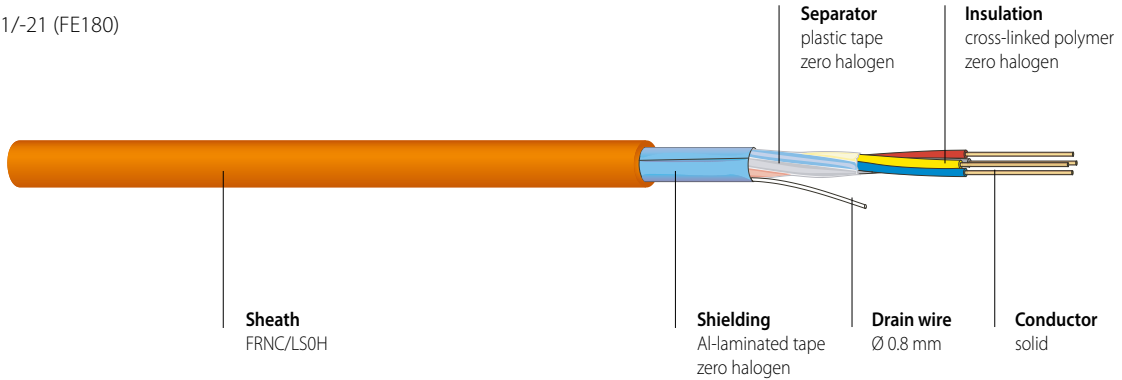
Wiring cable for industrial electronics max. 225V, Keram

halogen-free, with improved fire characteristics,

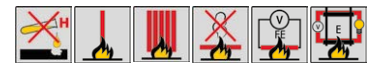
EN 50200 (PH120)

EN 50362

IEC 60331-11/-21 (FE180)



PRODUCT INFORMATION



APPLICATION

Cables with intrinsic fire resistance are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled. Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The cable should only be laid directly in earth or water if a protective conduit is used. Permitted operating temperature at conductor of +70°C.

CONSTRUCTION

Conductor	Bare copper, solid, 0.8 mm diameter, VDE 0815
Insulation	Fire-resistant, cross-linked, high-performance Keram special compound, EN 50290-2-26
Core colours	VDE 0815, bundles identified by numbered tape
Separator	PEPT "Plastic Tape"
Shielding	Al-laminated tape with tinned copper drain wire Ø 0.8 mm
Outer sheath	Flame retardant polyolefin compound VDE 0819 part 107, EN 50290-2-27 and VDE 0250-214 "HM 2"
Sheath colour	Orange

ELECTRICAL PROPERTIES

Insulation resistance	minimum 100 MΩ x km
Loop resistance	maximum 73.2 Ω/km at 0.80 mm
Capacitance unbalance	maximum 120 nF/km at 800 Hz
Capacitance coupling	K maximum 200 pF/100m at 800 Hz
Rated voltage	maximum 225 V
Test voltage	500 V, 50 Hz Core/Core 2000 V, 50Hz, Core/Screen

GENERAL PROPERTIES

Minimum bending radius	during installation	7.5 x D (D = outer diameter)
	permanent installation	2.5 x D
Crush resistance	≥ 1000 N/10 cm	
Impact	≥ 10 impacts	
Operating temperature	permanent installation	-30°C to +70°C
	during installation	-5°C to +50°C

Zero halogen,	
non corrosive gases	IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Flame spread	IEC 60332-3-22/-24 Cat. A/C, EN 60332-3-22/-24 Cat. A/C, VDE 0482-332-3-22/24 Cat. A/C
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Circuit integrity (FE/PH)	IEC 60331-11/-21 (180minutes), VDE 0472 part 814 (FE180) IEC 60331-2, EN 50200, VDE 0482-200

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PRODUCT INFORMATION

Article No.	No. of cores x conductor diameter				Cu content kg/km	Total weight approx. kg/km	Outer diameter approx. mm	Fire load kWh/m
	n x mm							
188376	1	x	2	x 0.80	15	40	5.5	0.095
188318	2	x	2	x 0.80	25	56	6.0	0.123
188325	4	x	2	x 0.80	45	96	8.7	0.21

Additional dimensions available on request.