

PREVENTIVE FIRE PROTECTION

JE-H(St)HRH...Bd FE180 E30-E90

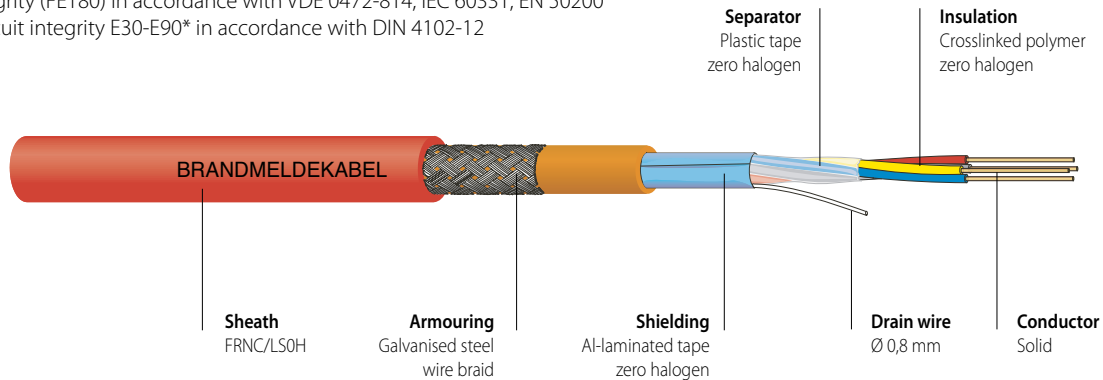
Fire alarm cable with steel wire braiding max. 225V, pyrofil® Keram

Halogen-free, with improved fire characteristics

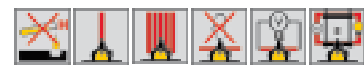
with reference to VDE 0815

Circuit integrity (FE180) in accordance with VDE 0472-814, IEC 60331, EN 50200

System Circuit integrity E30-E90* in accordance with DIN 4102-12



PRODUCT INFORMATION



APPLICATION

Safety cables are used in all situations that require special protection against fire and flame damage for people and equipment and where a high degree of safety conditions must be fulfilled. Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The fire alarm cables correspond to the demands of System Circuit integrity E30-E90* in accordance with DIN 4102-12. System Circuit integrity is guaranteed at an operating voltage up to 110V. The steel wire braiding serves as a form of mechanical protection. Permitted operating temperature at conductor of +70°C.

CONSTRUCTION

Conductor	Bare copper, solid, 0.8mm diameter, VDE 0815
Insulation	Fire-resistant, crosslinked, high-performance Keram special compound, EN 50290-2-26
Core colours	According to VDE 0815, bundles identified by numbered tape
Separator	PEPT "Plastic Tape"
Shielding	Al-laminated tape with tinned copper drain wire Ø 0.8mm
Inner sheath	Flame retardant polyolefin compound, VDE 0819 part 107, EN 50290-2-27 and VDE 0250-214, „HM2“
Armouring	Galvanised steel wire braid
Outer sheath	Flame retardant polyolefin compound, VDE 0819 part 107, EN 50290-2-27 and VDE 0250-214, „HM 2“
Sheath colour	Red
Imprint	DATWYLER PYROFIL KERAM „BRANDMELDEKABEL“ JE-H(ST)HRH...BD FE180 E30-E90 „N X 2 X MM“ „ORDER NO.“ SWISS MADE „METRE MARKING“, or on request

ELECTRICAL PROPERTIES

Insulation resistance	min. 100 MΩ x km
Loop resistance	max. 73.2 Ω/km at 0.80 mm
Capacitance unbalance	max. 120 nF/km bei 800 Hz
Capacitance coupling	K max. 200 pF/100m at 800 Hz
Rated voltage	max. 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 (180 minutes), VDE 0472 part 814 (FE180), IEC 60331-2, EN 50200, VDE 0482-200
- System Circuit integrity [E30-E90]* DIN 4102 part 12

* Circuit integrity is dependent on installation method.

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PRODUCT INFORMATION

Article No.	No. of cores x conductor diameter				Cu content kg/km	Total weight app. kg/km	Outer diameter app. mm	Fire load kWh/m
	n x mm							
	1	x	2	x 0.80	15	94	8.3	0.23
188 119	2	x	2	x 0.80	25	117	9.0	0.26
188 120	4	x	2	x 0.80	45	179	11.7	0.39
188 127	8	x	2	x 0.80	85	404	18.0	0.93
188 128	12	x	2	x 0.80	126	466	18.9	1.01
	16	x	2	x 0.80	166	550	20.3	1.16
188 129	20	x	2	x 0.80	206	640	22.3	1.32
188 346	32	x	2	x 0.80	326	877	26.5	1.72

Additional dimensions available on request.