

FLAME-X 950

JE-H(St)H Bd FE180/E90



Adapted to DIN VDE 0815

TT1-6644 v.2 19.01.2015

Halogen free low smoke fire resistant wiring cables for telecommunication and data processing system



CABLE CONSTRUCTION			
Conductors	Bare solid copper conductor 0,8mm		
Insulation:	Halogen-free cross-linked compound type EI8(90°C) acc. EN 50363-5		
Colours of insulation for 4 pairs units	Pair no.	wire A	wire B
	1	blue	red
	2	grey	yellow
	3	green	brown
	4	white	black
	Two-pair cables shall be cabled in quad formation and colour coded: blue, red, grey, yellow		
Biding tapes of cable core	Colourless		
Cable core wrapping	Polyester tape		
Screen	AL/PET tape		
Drain wire	Solid tinned annealed copper wire 0,8mm		
Sheath	thermoplastic halogen-free, flame retardant compound acc. to EN 50290-2-27 (70°C)		
Colour of sheath	Grey, orange or red.		

TECHNICAL DATA		
Electrical parameters at 20°C	Unit	Value
Loop resistance of 1km(max)	Ω/km	73.2
Resistance of insulation (min)	MΩ*km	100
Mutual capacitance (min)	nF/km	120
		(this values may be extended at 20% with a make-up up to 4 pairs)
Capacitance unbalance (k) (max)	pF/100m	200
		(20% of the values, but one value up to 400 pF is allowed)
Test voltage	V	Core-core: 500V
		Core-screen: 2000V
Operating voltage	V	max. 225V
		(not for purposes of high current and power installation)
Temperature range	°C	Flexing: -5°C to 50°C
		Flexing: -30°C to 70°C
Maximum bending radius	mm	7.5xD; D - overall diameter of the cable

TELE-FONIKA Kable S.A.

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FEATURES	
Insulation integrity FE 180	DIN VDE 0472-814 (800°C, 180 minutes), IEC 60331
System integrity E90	DIN VDE 4102-12 (90 min.)
Flame retardant	VDE 0482-266-2-4, DIN EN 60332-3-24 (IEC 60332-3 Category C)
Smoke density	VDE 0482-1034-2, DIN EN 61034-2 (IEC 61034-2: light transmittance values > 70%)
Gases evolved during combustion	VDE 0482-267-2-2, DIN EN 50267-2-2 (IEC 60754-2: pH >3,5; conductivity <100 $\mu\text{S}\cdot\text{cm}^{-1}$)

DIMENSIONS				
Number pairs and diameter of conductor	Nominal thickness of insulation	Minimum thickness of sheath	Approximate overall diameter	Approximate net weight of cable
n x 2 x mm	mm	mm	mm	kg/km
1 x 2 x 0.8	0.7	1.2	7.6	66.4
2 x 2 x 0.8	0.7	1.2	8.5	90.4
4 x 2 x 0.8	0.7	1.2	12.6	154.8

APPLICATION
Fire resistant, halogen-free static screened installation cables for telecommunication purpose. The static screen prevents strong interference impulse. Suitable for fixed installation everywhere, where in case of fire human life and material assets are to be protected, e.g. in industrial complexes, public buildings, hotels, airports, under ground railway networks, hospitals. Not for purposes of high current and power installation.

PACKING
500 m on drums. Other forms of packing and delivery are available on request.

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