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**TECHICAL SPECIFICATION FOR FIRE RESISTANCE SIGNAL CONTROL CABLES
JE-H(st)H Fe 180 E90**

Cable system Circuit Integrity



CONSTRUCTION

CONDUCTOR	Solid Copper Conductors per IEC 60228 Class 1 ;VDE 0295
INSULATION	Cross –Linked Ceramic Forming Polymer Compound
COLOUR CODE	Vde 815
STRANDING	Pairs in layers
WRAPPING	Polyester Tape+Fiber Glass Tape
SCREEN	Tinned Copper Drain Wire + Al/pet
SHEATH	EN 50290 -2-27, DIN VDE 0207,90°C HFFR COMPAUND.
SHEATH COLOUR	RAL 2008 ORANGE or RAL 3000 RED

APPLICATION

In places where electro- magnetic interference and influence exists ondoor whre people are densely populated. Industrial electronics. Indoor communication systems.

TECHNICAL CHARACTERISTICS

1-CONDUCTOR

Section	0.8mm	1.0mm	1.5mm ²	2.5mm ²
Resistance, max	36.5 Ω/km	22.3 Ω/km	12.1 Ω/km	7.41 Ω/km

2-INSULATION RESISTANCE	: 100MΩ.km
3-MUTUAL CAPACITANCE , max.(800Hz)	: 120nF/km
4- CAPACITANCE UNBALANCE , max.(800Hz)	: 300pF/100m
5-OPERATING VOLTAGE	: 225V
6-DIELECTRIC STRENGTH	:500-2000V
7-BENDING RADIUS	: 10xCable Diameter
8-TEMPERATURE RANGE	:-40 °C to +90°C

FIRE PERFRMANCE TESTS

FLAME RETARDANCE	IEC 60332-1/VDE 0482-332-1-2 /EN 60332-1 / BS EN 60332-1-2
SMOKE EMISSION	IEC 61034-2/VDE 0482-1034-2/EN 61034-2/BS EN 61034-2
HALOGEN GAS CONTENT	IEC 60754-1/VDE 0482-267-2-1/EN 50267-2-1/BS EN 50267-2-1
CORROSIVE GAS EMISSION	IEC 60754-2/VDE 0482-267-2-3/EN 50267-2-3/BS EN 50267-2-3
CIRCUIT INTEGRITY (FE 180)	IEC 60331-23
CABLE SYSTEM INTEGRITY (E90)	DIN 4102-12



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No. of Conductor Diameter mm/mm ²	Overall Dimensions (mm)	Approx. Weight (kg/km)	Standart Length (m)
0.8mm			
1x2x0.80	5,2	37	100/500/1000
2x2x0.80	5,9	53	100/500/1000
3x2x0.80	7,9	78	100/500/1000
4x2x0.80	9,4	100	100/500/1000
1.5mm²			
1x2x1.5	7,4	72	100/500/1000
2x2x1.5	8,2	114	100/500/1000
3x2x1.5	11,2	163	100/500/1000
4x2x1.5	13,0	216	100/500/1000
2.5mm²			
1x2x2.5	7,9	95	100/500/1000
2x2x2.5	9,2	157	100/500/1000
3x2x2.5	13,2	229	100/500/1000
4x2x2.5	15,3	304	100/500/1000



ISO 9001



ISO 14001



ISO 18001



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