

Fire Resistant Cable

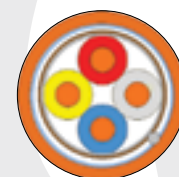
ERVITAL JE-H(St)H...Bd FE180/PH120/E90



Efectis

VDE 0815 / DIN 4102-12

FLAME RETARDANT CHARACTERISTIC/LOW SMOKE EMISSION/WITHOUT POISONED AND CORROSIVE GASES
CIRCUIT INTEGRITY 180 MINUTES/CIRCUIT INTEGRITY WITH MECHANICAL SHOCK PH120/
FUNCTIONAL INTEGRITY E90



APPLICATION

- In places where electro-magnetic interference and influence exists
- Indoors where people are densely populated
- Instrumentation and control engineering
- Industrial electronics
- Computers and office machines
- Indoor communication systems
- Indoor sound systems
- In places where human life and valuable materials and equipment need to be protected

CONSTRUCTION

Conductor	EN 60228 Class 1 Electrolytic Copper
Insulation	EN 50363 Cross-linked Ceramic Forming Polymer Compound
Colour Code	VDE 0815
Stranding	2 pair star quad, more than 2 pairs groups in layers
Wrapping	Pes Tape + Glass Fibre Tape
Screen	Tinned Copper Drain Wire + Al-Pes Tape
Sheath	EN 50290-2-27 HFFR Compound
Sheath Colour	RAL 3000 Red or RAL 2003 Orange

TECHNICAL CHARACTERISTICS

Insulation Resistance (min)	Mutual Capacitance @800Hz	Operating Voltage	Min. Bending Radius	Test Voltage		Temperature Range
				Core/Core	Core/Screen	
100MΩxkm	120nF/km	225V	10x Cable Ø	0,8mm: 500V ≥1,0mm: 1000V	2000 V	- 30°C - +70°C (Temp. for stationary condition) - 5°C - +50°C (Temp. for moving condition) * +90°C (Max. Permissible Operating Temperature at Conductor) ** Permissible short-circuit temperature 250 °C

FIRE PERFORMANCE TESTS

Flame Retardant	Flame Propagation	Smoke Density	Corrosiveness Combustion Gases	Halogen Free	Circuit Integrity (FE180)	Circuit Integrity With Shock (PH120)	Functional Integrity (E90)
EN 60332-1-2	EN IEC 60332-3-24	EN 61034-2	EN 60754-2	EN 60754-1	IEC 60331-23/-21	EN 50200	DIN 4102-12

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Cross Section	Overall Diameter (mm)	Approx Weight (kg/km)	Loop Resistance (Ω /km)	Product Code
1x2x0,8+0,8 mm	6	55	73.2	MDER0094001000800
2x2x0,8+0,8 mm	6.7	75	73.2	MDER0094002000800
4x2x0,8+0,8 mm	9.4	120	73.2	MDER0094004000800
8x2x0,8+0,8 mm	15.2	285	73.2	MDER0094008000800
12x2x0,8+0,8 mm	15.9	315	73.2	MDER0094012000800
1x2x1+0,8 mm	6.4	65	44.6	MDER0094001001020
2x2x1+0,8 mm	7.2	90	44.6	MDER0094002001020
4x2x1+0,8 mm	10.2	160	44.6	MDER0094004001020
1x2x1,5 mm ² +0,8 mm	8	95	24.6	MDER0094001001500
2x2x1,5 mm ² +0,8 mm	9.2	145	24.6	MDER0094002001500
4x2x1,5 mm ² +0,8 mm	12.6	235	24.6	MDER0094004001500
1x2x2,5 mm ² +0,8 mm	8.8	120	15.1	MDER0094001002500
2x2x2,5 mm ² +0,8 mm	10.1	195	15.1	MDER0094002002500