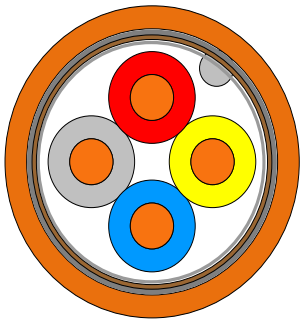
FIRE RESISTANT SIGNAL CONTROL CABLES
ERVITAL JE-H(St)H...Bd FE180 / PH120 / E90
(VDE 0815)

Revision No. 01/21



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 Place Where Human Life and Valuable Materials and Equipment Need to Be Protected

Good EMC Characteristics/ Flame Retardant Characteristic/ Low Smoke Emission/ Without Poisoned And Corrosive Gases
Fire Resistant/ Circuit Integrity for Min. 180 Minutes (FE180)/ Circuit Integrity With Shock for Min. 120 Minutes (PH120)
Cable System Circuit Integrity for Min. 90 Minutes (E90)

TECHNICAL CHARACTERISTICS

1 -	Conductor	:	IEC 60228/DIN EN 60228/ EN 60228 Class 1 Electrolytic Solid Copper
2 -	Insulation	:	Cross-Linked Special Polymer Compound
3 -	Insulation Colour	:	VDE 0815
4 -	Stranding	:	2 pair Star quad,more thn 2 pairs groups in layers
5 -	Wrapping	:	PES Tape
6 -	Flame Barrier	:	Glass Fibre Tape
7 -	Overall Screen	:	Tinned Copper Drain Wire + Al-PES Tape
8 -	Outer Sheath	:	EN 50290-2-27 HFFR Compound
9 -	Outer Sheath Colour	:	RAL 2003 Orange
10 -	Min.Bending Radius	:	10 x D
11 -	Operating Voltage	:	225 V
12 -	Test Voltage	:	0,8 mm=500 V , ≥1 mm=1000 V
13 -	Temperature Range	:	-40°C ~+70°C (Fixed Laying)
14 -	Flame Retardant Test	:	IEC 60332-1-2, DIN EN 60332-1-2, BS EN 60332-1-2, EN 60332-1-2
15 -	Flame Propagation Test (CAT C)	:	IEC 60332-3-24, DIN EN 60332-3-24, BS EN 60332-3-24, EN 60332-3-24
16 -	Smoke Density Test	:	IEC 61034-2, VDE 0482-1034-2, EN 61034-2
17 -	Corrosive Gas Test	:	IEC 60754-2, VDE 0482-754-1-2, EN 60754-2
18 -	Halogen Free Test	:	IEC 60754-1, VDE 0482-754-2, EN 60754-2
19 -	Circuit Integrity Test (FE180)	:	IEC 60331-23
20 -	Circuit Integrity With Shock Test (PH120)	:	EN 50200; VDE 0482-200; BS EN 50200
21 -	Cable System Circuit Integrity Test (E90)	:	DIN 4102-12
22 -	Cable Marking	:	ERSE KABLO [CABLE DESCRIPTION] [CABLE CONSTRUCTION] [OPERATING VOLTAGE][METER MARK] [PRODUCTION ORDER NUMBER] CE RoHS

Cross Section	*Overall Diameter (mm)*	*Loop Resistance (Ω/Km)*	*Insulation Resistance (MΩxKm)*	*Mutual Capacity (nF/m)*	*Approx. Weight (kg/km)*	*Product Code*
1x2x0,80+0,80 mm	6,00±%10	73,2	100	120	50	MDER0094001000800
2x2x0,80+0,80 mm	6,70±%10				70	MDER0094002000800
4x2x0,80+0,80 mm	9,40±%10				116	MDER0094004000800
6x2x0,80+0,80 mm	15,20±%10				260	MDER0094006000800
8x2x0,80+0,80 mm	15,20±%10				266	MDER0094008000800
12x2x0,80+0,80 mm	15,90±%10				294	MDER0094012000800
1x2x1+0,80 mm	6,40±%10	44,6			60	MDER0094001001000
2x2x1+0,80 mm	7,20±%10				86	MDER0094002001000
1x2x1,5 mm²+0,80 mm	8,00±%10	24,6			88	MDER0094001001500
1x2x2,5 mm²+0,80 mm	8,80±%10	15,1			113	MDER0094001002500
1x2x16 +20 awg	7,80±%10	26,3			84	MEGB0094001A0016O