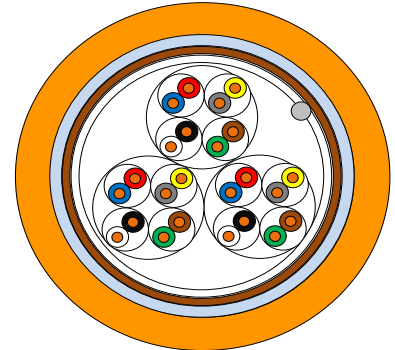


**FIRE RESISTANT SIGNAL CONTROL CABLES  
ERVITAL JE-H(St)H...Bd FE180 / PH 120 / E90  
(VDE 0815)**

**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 Than 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                              | : 500 V   |
| 13 - Temperature Range                         | : - 30°C ~ +70°C (Temp. for stationary condition )<br>- 5°C ~ +50°C (Temp. for moving condition )<br>+90°C (Max.Permissible Operating Temperature at Conductor)<br>Permissible short-circuit temperature 250 °C |
| 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 ERVITAL JE-H(St)H 12x2x0,8+0,8 mm Bd FE180/PH120/E90 IEC 60331-23/TS EN 50200 < VDE-REG 8336> @UE/@OK CE CCCC mt   CCCC mt   |

Cross Section	Overall Diameter (mm)	Loop Resistance ( $\Omega$ /Km)	Insulation Resistance ( $M\Omega \times Km$ )	Mutual Capacity (nF/km)	Approx. Weight (kg/km)	Product Code	SAP Cod
1x2x0,8+x0,8 mm	6,00 $\pm$ %10	73,2	100	120	50	MDER0094001000800	CFK468
2x2x0,8+x0,8 mm	6,70 $\pm$ %10				70	MDER0094002000800	CFK466
4x2x0,8+x0,8 mm	9,10 $\pm$ %10				114	MDER0094004000800	CFK467
5x2x0,8+x0,8 mm	10,10 $\pm$ %10				136	MDER0094005000800	CFK476
8x2x0,8+x0,8 mm	15,20 $\pm$ %10				266	MDER0094008000800	CFK475
10x2x0,8+x0,8 mm	15,90 $\pm$ %10				287	MDER0094010000800	CFK477
12x2x0,8+x0,8 mm	15,90 $\pm$ %10				294	MDER0094012000800	CFK472