

ERVITAL LIHCH FE180/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	IEC-60228; DIN VDE 0295; EN 60228 Class 5 Stranded Electrolytic Bare Copper
Insulation	Cross-linked Ceramic Forming Polymer Compound
Colour Code	DIN 47100
Stranding	In layers of optimum pitch
Wrapping	Pes Tape + Glass Fibre Tape

Screen	Tinned Copper Braid
Sheath	EN 50290-2-27 HFFR Compaund
Sheath Colour	RAL 2003 Orange

Technical Characteristics

CONDUCTOR RESISTANCE		INSULATION RESISTANCE (min)	MUTUAL CAPACITANCE	CURRENT CARRYING CAPACITY		BENDING RADIUS	TEST VOLTAGE	OPERATING VOLTAGE	TEMPERATURE RANGE
mm ²	Ω/km	MΩxkm 0,22mm ² /0,34mm ² = 200 ≥0,50mm ² = 20	120nF/km	mm ²	A	7,5x Cable Ø	0.22mm ² /0.34mm ² = 1200V ≥0,50mm ² = 2000V	0.22mm ² /0.34mm ² = 250V ≥0,50mm ² = 300/500V	-40°C ~ +70°C
0,22	79			0,22	2,5				
0,34	56			0,34	4,5				
0,50	39			0,50	6,0				
0,75	26			0,75	13				
1,0	19,5			1,0	16				
1,5	13,3			1,5	20				
2,5	7,98			2,5	25				

Flame Performance Tests

FLAME RETARDANT TEST	FLAME PROPAGATION TEST	SMOKE DENSITY TEST	TEST ON CORROSIVENESS COMBUSTION GASES
IEC 60332-1-2 VDE 0482-332-1-2 EN 60332-1-2 BS EN 60332-1-2	IEC 60332-3-24 VDE 0482-332-3-24 EN 60332-3-24 BS EN 60332-3-24	IEC 61034-2 VDE 0482-1034-2 EN 61034-2 BS EN 61034-2	IEC 60754-2 VDE 0482-754-2 EN 60754-2 BS EN 60754-2
HALOGEN FREE TEST	CIRCUIT INTEGRITY TEST (FE 180)	CIRCUIT INTEGRITY WITH SHOCK TEST (PH 120)	CABLE SYSTEM CIRCUIT INTEGRITY TEST (E90)
IEC 60754-1 VDE 0482-754-1 EN 60754-1 BS EN 60754-1	IEC 60331-23	EN 50200 VDE 0482-200 BS EN 50200	DIN 4102-12 E90