

ERVITAL LIHCH FE180/PH120



Application



- Indoors where people are densely populated
- In places where there is electromagnetic interference
- Instrumentation and control engineering
- Industrial electronics
- For signal transmission
- Indoor communication systems
- In safety and fire alarm systems
- In places where human life and valuable materials and equipment need to be protected

NOTES

- **THIS CABLE HAS BEEN APPROVED AND CERTIFIED BY VDE ON PH 180 TESTS

Construction

Conductor	IEC 60228; DIN VDE 0295; HD383 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 Compound
Sheath Colour	RAL 2003 Orange

Technical Characteristics

CONDUCTOR RESISTANCE		INSULATION RESISTANCE (min)	MUTUAL CAPACITANCE	OPERATING VOLTAGE	CURRENT CARRYING CAPACITY		BENDING RADIUS	TEST VOLTAGE (50 Hz 1 Min) CORE/CORRE	TEMPERATURE RANGE
mm ²	Ω/km	MΩxkm	120nF/km	mm ²	A	7,5x Cable e Ø	0.22mm ² /0.34mm ² = 1200V ≥0,50mm ² = 2000V	0.22 ve 0.34 mm ² = 250 V >0.50 mm ² = 300/500 V	-40°C ~ +70°C
0,22	79			0,22	2,5				
0,34	56	0,22mm ² /0,34mm ²		0,34	4,5				
0,50	39	= 200		0,50	5				
0,75	26	≥0,50mm ² = 20		0,75	6,0				
1,0	19,5			1,0	13				
1,5	13,3			1,5	16				
2,5	7,98			2,5	20				
					25				

Flame Performance Tests

FLAME RETARDANT TEST	FLAME PROPAGATION TEST	SMOKE DENSITY TEST	TEST ON CORROSIVENESS COMBUSTION GASES	HALOGEN FREE TEST	CIRCUIT INTEGRITY TEST (FE180)	CIRCUIT INTEGRITY WITH SHOCK TEST (PH120)
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	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