

Fire Resistant Cable

ERVITAL FIRE SAFE CABLE



FLAME RETARDANT CHARACTERISTIC / LOW SMOKE EMISSION / WITHOUT POISONED AND CORROSIVE GASSES / CIRCUIT INTEGRITY 180 MINUTES / CIRCUIT INTEGRITY WITH SHOCK PH 120 / CWZ ACCORDING TO BS STANDARDS

APPLICATION

Used as a power and control cable

- In emergency lighting
- In fire detection
- In fire alarm system circuits
- In places where human life and valuable materials and equipment need to be protected

CONSTRUCTION

Conductor	EN 60228 Class 1 (RE) & 2 (RM) Electrolytic Copper
Insulation	EN 50363-1 E12 Cross-linked Ceramic Forming Polymer Compound
Colour Code	2-core : Brown, Blue or Brown, Brown
	3-core : Brown, Black, Grey
	4-core : Blue, Brown, Black, Grey
Stranding	Cores shall be laid up using the sequence of colours specified
Wrapping	Pes Tape
Screen	Al-Pes Tape + Tinned Copper Drain Wire (min. 0,5 mm ²)
Sheath	EN 50290-2-27 HFFR Compound
Sheath Colour	RAL 3000 Red Other applicable colors:
	RAL 2003 Orange, RAL 9005 Black, RAL 9010 White

TECHNICAL CHARACTERISTICS

Operating Voltage	Min. Bending Radius	Test Voltage		Temperature Range
		Core/Core	Core/Screen	
300/500 V	6x Cable Ø	2000V	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)	Circuit Integrity Test (CWZ)
EN 60332-1-2	EN IEC 60332-3-24	EN 61034-2	EN 60754-2	EN 60754-1	IEC 60331-21	EN 50200	BS 6387

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Cross Section	Overall Diameter (mm)	Approx Weight (kg/km)	Conductor Resistance (Ω /km)	Product Code
2x1 (RE)	6	65	18.1	MDER079700200100R
2x1,5 (RE)	7	85	12.1	MDER079700200150R
3x1,5 (RE)	7.6	110	12.1	MDER079700300150R
4x1,5 (RE)	8.3	130	12.1	MDER079700400150R
2x1,5 (RM)	7.4	85	12.1	MDER139700200150R
3x1,5 (RM)	8	115	12.1	MDER139700300150R
4x1,5 (RM)	9	145	12.1	MDER139700400150R
2x2,5 (RE)	9	120	7.41	MDER079700200250R
3x2,5 (RE)	9.1	165	7.41	MDER079700300250R
4x2,5 (RE)	10.1	205	7.41	MDER079700400250R
2x2,5 (RM)	8.8	120	7.41	MDER139700200250R
3x2,5 (RM)	9.5	165	7.41	MDER139700300250R
4x2,5 (RM)	10.6	210	7.41	MDER139700400250R