

# Er vital Fire Safe Cables



## 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 <sup>2</sup> )
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 Characteristic

CONDUCTOR RESISTANCE		OPERATING VOLTAGE	MIN.BENDING RADIUS	TEST VOLTAGE		TEMPERATURE RANGE
mm <sup>2</sup>	Ω/km	300/500 V	6x Cable Ø	CORE/CORE CORE/SCREEN	2000 V 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
1	18,1					
1,5	12,1					
2,5	7,41					
4	4,61					

Cross Section mm <sup>2</sup>	Overall Diameter (mm)	Approx. Weight (kg/km)	Product Code
2x1 (RE)	6,0	60	MDER079700200100R
2x1,5 (RE)	7,0	79	MDER079700200150R
3x1,5 (RE)	7,6	104	MDER079700300150R
4x1,5 (RE)	8,3	127	MDER079700400150R
2x1,5 (RM)	7,4	82	MDER139700200150R
3x1,5 (RM)	8,0	109	MDER139700300150R
4x1,5 (RM)	9,0	140	MDER139700400150R
2x2,5 (RE)	9,0	113	MDER079700200250R
3x2,5 (RE)	9,1	153	MDER079700300250R
4x2,5 (RE)	10,1	195	MDER079700400250R
2x2,5 (RM)	8,8	116	MDER139700200250R
3x2,5 (RM)	9,5	156	MDER139700300250R
4x2,5 (RM)	10,6	201	MDER139700400250R

## Fire performance test

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