CLEVELAND CABLE COMPANY

Enhanced Fire Alarm & Security Cable BS5839, BS7629 - 1.5mm - 4mm

Enhanced fire alarm and security cable. Soft Skin enhanced Fire Resistant Cables for general use in fire detection, fire alarm, voice alarm, and emergency lighting circuits. Enhanced cables are designed to carry on working for 120 minutes in a fire.

The higher fire resistance this cable provides is recommended for systems in which cables might need to operate correctly during a fire for multiple phase evacuation such as tower blocks and multi storey buildings.

Key Features

Installation Guidelines
Should not be installed at temperatures below 0°C or above +40°C

Voltage Rating
300/500 Volts

Minimum Bending Radius
As Per Manufacturers Datasheet

Construction

- **Conductor**: Class 1 solid conductor according to BS EN 60228
- **Insulation**: Fire resistant MICA tape or fire resistant silicone rubber
- **Overall Tape Screen**: AL/PET (Aluminium/Polyester Tape)
- **Sheath**: Low Smoke Zero Halogen (LSZH)
- **Sheath Colour**: White or Red

Standards

- BS 5839-1:2017 Enhanced 120, BS 8519:2020 Category 2, BS 7629-1:2015 Enhanced 120, BS 8434-2:2003 +A2:2009 120 minutes(Fire, Mechanical Shock & Water120 mins @930°C (water final 60 mins)), BS EN 50200:2015 PH30, PH60, PH120(Fire, Mechanical Shock & Water120 mins @930°C(water final 60 mins, MS every 5 minutes)), BS 6387:2013 CWZ, BS EN 60754-1:2014 Halogen Emission Standard, BE EN 61034-2:2005 + A1:2013 Low Smoke Standard

Core Colours

2 core - Brown, Blue

3 core - Brown, Black, Grey

4 core - Brown, Black, Grey, Blue

7 core and above - Black **with** White **numbers**

Enhanced Fire Alarm & Security Cable BS5839, BS7629 - 1.5mm - 4mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Gland Ref	1 Hole Clip Ref	Gland Size
ENH4X1/5*	1.5	4+E	1/1.38	9.5	160	251	37	20
ENH3X1/5*	1.5	3+E	1/1.38	8.4	130	251	34	20
ENH2X1/5*	1.5	2+E	1/1.38	8	110	251	32	20
ENH4X2/5*	2.5	4+E	1/1.78	11.7	250	252	43	20
ENH3X2/5*	2.5	3+E	1/1.78	10.5	200	252	40	20
ENH2X2/5*	2.5	2+E	1/1.78	9	160	252	34	20
ENH4X4*	4	4+E	7/0.85	13.3	380	254	51	25
ENH3X4*	4	3+E	7/0.85	12.1	315	254	47	25
ENH2X4*	4	2+E	7/0.85	11.3	260	252	43	20
ENH3X1/5WHR500	500	3+E	1/1.38	8.4	130	251	34	20

FIRE ALARM & SECURITY CABLE

CURRENT-CARRYING CAPACITY (amperes)

Ambient temperature: 30°C
Conductor operating temperature:90°C

Conductor cross sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (free air or on a perforated cable tray etc, horizontal or vertical)	
	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable*, three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable*, three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable*, three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable*, three-phase AC
(mm2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	14.5	13	17	15	19	17	21	18
1.5	18.5	16.5	22	19.5	24	22	26	23
2.5	25	22	30	26	33	30	36	32
4	33	30	40	35	45	40	49	42

FIRE ALARM & SECURITY CABLE

VOLTAGE DROP (per ampere per metre)

Conductor operating temperature:90°C

Conductor cross sectional area	Two-core cable DC	Two-core cable, single-phase AC	Three- or four-core cable, three-phase AC
(mm2)	(mV/A/m)	(mV/A/m)	(mV/A/m)
1	46	46	40
1.5	31	31	27
2.5	19	19	16
4	12	12	10

For more information contact: **01642 241 133**

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