

Standard Fire Alarm & Security Cable BS5839, BS7629 - 1mm² to 4mm²



Description

FIRE RATING 30 MINUTES

Standard fire alarm and security cable. Soft Skin Standard Fire Resistant Cables for general use in fire detection, fire alarm, voice alarm, and emergency lighting circuits. These cables are designed to carry on working for a specific length of time under fire conditions.

'Standard' fire resistance is recommended for general use in low rise buildings up to 10 storeys.

Key Features



Voltage Rating
300/500 Volts



Minimum Bending Radius
6 x overall diameter



Flame Retardancy
BS5839



Temperature Limits
Temperature Range: -40 to 90°C

Core Colours

E = Bare Earth conductor

2 core - Brown Blue

3 core - Brown Black Grey

4 core - Brown Black Grey Blue

7 core and above - Black with White numbers

Outer sheath comes in a choice of: Red White Orange Black

- BS 5839-1:2017 Enhanced 120
- IEC/EN 61034-1/2,
- BS EN/IEC 60228
- BS EN/IEC 60754-1
- BS EN / IEC 60332
- BS6387 Cat CWZ
- BS 7629-1:2015 Enhanced 120

Construction

- **Conductor:** Up to 2.5mm: Class 1 solid copper, 4mm Class 2 stranded copper
- **Insulation:** Fire resistant silicone rubber
- **Protective Conductor:** Tinned copper
- **Overall Tape Screen:** Aluminium/Polyester Tape (AL/PET) with 0.5mm drain wire
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance



Standard Fire Alarm & Security Cable BS5839, BS7629 - 1mm² to 4mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Gland Ref	1 Hole Clip Ref	Gland Size
FP2X1	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP3X1	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP4X1	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP7X1	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP12X1	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP2X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP3X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP4X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP7X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP12X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP19X1/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP2X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP3X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP4X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP7X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP12X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP19X2/5	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP2X4	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP3X4	20/16	500	16	1.5	1	7/1.35	10	BLUE
FP4X4	20/16	500	16	1.5	1	7/1.35	10	BLUE



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
(mm ²)	(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
(mm ²)	(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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.