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 - White with Black numbers

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

Standards

- IEC/EN 61034-1/2,
- BS EN/IEC 60228
- BS EN/IEC 60754-1
- BS EN / IEC 60332
- BS6387 Cat CWZ

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)

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory
UKAS TESTING 31196

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.

CLEVELAND CABLE COMPANY

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

ecovadis

UKAS 31196 LPCB FORS CENELEC RoHS REACH

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	1	2	1/1.13	7.5	90	251	28	20
FP3X1	1	3	1/1.13	8	110	251	30	20
FP4X1	1	4	1/1.13	8.8	135	251	34	20
FP7X1	1	7	1/1.13	10.5	170	252	40	20
FP12X1	1	12	1/1.13	13.7	270	254	54	25
FP2X1/5	1.5	2	1/1.38	8	110	251	32	20
FP3X1/5	1.5	3	1/1.38	8.4	130	251	34	20
FP4X1/5	1.5	4	1/1.38	9.5	160	251	37	20
FP7X1/5	1.5	7	1/1.38	11.3	230	252	43	20
FP12X1/5	1.5	12	1/1.38	15.2	365	254	59	25
FP19X1/5	1.5	19	1/1.38	17.8	540	254	67	25
FP2X2/5	2.5	2	1/1.78	9	160	252	34	20
FP3X2/5	2.5	3	1/1.78	10.5	200	252	40	20
FP4X2/5	2.5	4	1/1.78	11.7	250	252	43	20
FP7X2/5	2.5	7	1/1.78	13.7	285	252	54	20
FP12X2/5	2.5	12	1/1.78	17.9	470	254	67	25
FP19X2/5	2.5	19	1/1.78	21.4	720	255	79	32
FP2X4	4	2	7/0.85	11.3	260	252	43	20
FP3X4	4	3	7/0.85	12.1	315	254	47	25
FP4X4	4	4	7/0.85	13.3	380	254	54	25

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

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.