



Doncaster Cables



FIRE PERFORMANCE CABLE



Manufactured to BS 7629-1 Table 1

Plain Annealed Copper Conductors / Silicone Rubber Insulated / Double Layer of Aluminium/ Polyester Laminated Tapes / Circuit Protective Conductor / Thermoplastic Low Smoke Non-Halogen (LSNH) Sheath. 300/500V

Conductor: Plain Annealed Copper Class 1 or 2 to BS EN 60228

Insulation: Silicone Rubber Type EI2 to BS EN 50363-1

Screen: Double Aluminium/Polyester Screen In Direct Contact With Tinned Annealed Copper CPC. Providing excellent Earthing Characteristics

Sheath: Thermoplastic LSNH Type LTS 3 to BS 7655-6.1

Current Ratings: For current ratings refer to table 4D2 of BS7671 IEE Wiring Regulations Seventeenth Edition.

These cables are suitable for both indoor and outdoor applications in suitably protected environments and is particularly appropriate for direct burial in plaster, clipped directly to surface, tray and other installations requiring a dressable product.

STANDARD CORE COLOURS



The British Cable Company You Can Trust



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FIRE PERFORMANCE : BS 6387:2013 (Category C – Resistance to fire alone, 3 hours at 950°
 BS 6387:2013 (Category W – Resistance to fire with water spray)
 BS 6387:2013 (Category Z – Resistance to fire with mechanical shock)
 EN 50200:2015 (Standard 60)
 EN 50200:2015 Annex E (30 minutes)
 BS 5839-1 Clause 26.2d (Standard)

Conductor Identification:

Two Core - Blue and Brown (plus CPC)
 Three Core -Brown , Black and Grey (plus CPC)
 Four Core -Blue, Brown, Black and Grey (plus CPC)

Recommended Clips and Clipping Distances:

	2 Core				3 Core				4 Core			
Size (mm ²)	1.0	1.5	2.5	4.0	1.0	1.5	2.5	4.0	1.0	1.5	2.5	4.0
Recommended Clip (DC)	28	32	37	43	32	32	43	51	34	34	47	54
Maximum Horizontal Clipping Distance	250	300	300	300	300	300	300	300	300	300	300	350
Maximum Vertical Clipping Distance	400	400	400	400	400	400	400	400	400	400	400	450

Weight and dimensional information is provided as an approximate guide only.

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Dimensional Details:

Reference Number	Number and nominal cross sectional area of conductors (mm ²)	Nominal stranding of conductor (mm)	Nominal Stranding of CPC (mm)	Nominal radial thickness of insulation (mm)	Nominal radial thickness of sheath (mm)	Nominal Overall Diameter (mm)	Approximate weight (kg/km)
HFS2C1.0	2 x 1.0	1/1.13	1 / 1.13	0.6	0.9	7.3	80
HFS2C1.5	2 x 1.5	1/1.38	1 / 1.38	0.7	0.9	8.2	100
HFS2C2.5	2 x 2.5	7/0.67	7/0.67	0.8	1.0	10.1	135
HFS2C4.0	2 x 4.0	7/0.85	7/0.85	0.8	1.1	11.4	200
HFS3C1.0	3 x 1.0	1/1.13	1 / 1.13	0.6	0.9	7.7	95
HFS3C1.5	3 x 1.5	1/1.38	1 / 1.38	0.7	0.9	8.9	115
HFS3C2.5	3 x 2.5	7/0.67	7/0.67	0.8	1.0	10.9	165
HFS3C4.0	3 x 4.0	7/0.85	7/0.85	0.8	1.1	12.1	240
HFS4C1.0	4 x 1.0	1/1.13	1 / 1.13	0.6	1.0	8.5	110
HFS4C1.5	4 x 1.5	1/1.38	1 / 1.38	0.7	1.0	9.6	140
HFS4C2.5	4 x 2.5	7/0.67	7/0.67	0.8	1.1	11.9	200
HFS4C4.0	4 x 4.0	7/0.85	7/0.85	0.8	1.2	13.4	295

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FIRESURE BENEFITS FIRE PERFORMANCE CABLE



Our Firesure cable has twice as many metallic tapes than any other leading Fire Performance Cable. This additional protection improves the fire performance and general characteristics of our cable.

The Doncaster Cables Firesure design offers numerous advantages in comparison to some other suppliers who opt for a 'longitudinally applied tape' design. These longitudinal designs mean that the metallic tape required is simply folded along the inner conductors with a minimum 1mm tape overlap.

In comparison to this the Firesure design consists of 2 'helically' applied metallic tapes. This helically applied tape design means that both tapes are continuously wrapped around the conductors with a minimum tape overlap of 20%.

This increased overlap allows for the following key performance benefits. The following benefits are further amplified through Firesure cable as there are two metallic tapes as opposed to the minimum British Standard requirement of 1 tape.

KEY BENEFITS OF FIRESURE IN COMPARISON TO OTHER FIRE PERFORMANCE CABLES

- HIGHER RESISTANCE TO ELECTROMAGNETIC INTERFERENCE
- SUPERIOR EARTH CONTINUITY (The bare CPC is placed between two metallic tapes)
- ENHANCED RESISTANCE TO CABLE KINKS (Subsequently protecting cables performance)
- EXTREMELY ROBUST/DURABLE DESIGN (Due to increased tape numbers and overlap)
- IMPROVED DATA TRANSMISSION (Due to twisted cores and additional screening)

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Certificate of Product Approval

Certificate Number: 338a

Issue: 10

Doncaster Cables

Millfields Industrial Estate
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DN5 0SJ

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

Product(s)

Cable Types as listed below:
Firesure Cables
See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 7629-1:2015 (STANDARD 60)
BS 6387:2013 (Category CWZ)
EN 50200:2015 (Class PH60)
EN 50200:2015 Annex E

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Damien Ward

Signed for LPCB

Damien Ward
Certification Scheme Manager

19 December 2016
Date of Issue

12 March 1998
Date of First issue



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Appendix to Certificate No: 338a Doncaster Cables

Issue: 10

Product name						LPCB Ref. No.
Firesure Cables						338a/01
Nominal csa of conductor (mm ²)	Core Construction	BS 7629-1	BS 6387	EN 50200	EN 50200 Annex E	BS 5839-1 Clause 26.2
1.0 ⁽¹⁾	2	STANDARD 60 ⁽³⁾	C, W, Z	PH60	30min ⁽⁴⁾	Standard ⁽⁵⁾
1.5 ⁽¹⁾	2,3 & 4	STANDARD 60 ⁽³⁾	C, W, Z	PH60	30min ⁽⁴⁾	Standard ⁽⁵⁾
2.5 ⁽²⁾	2,3 & 4	STANDARD 60 ⁽³⁾	C, W, Z	PH60	30min ⁽⁴⁾	Standard ⁽⁵⁾
4.0 ⁽²⁾	2,3 & 4	STANDARD 60 ⁽³⁾	C, W, Z	PH60	30min ⁽⁴⁾	Standard ⁽⁵⁾

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. In meeting the requirements of BS 7629-1:2015, the Firesure Cables listed met the requirements for smoke density to EN 61034-2:2005+A1-2014, and achieved less than 0.5%HCl for the outer covering, binding tape & insulation when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements in BS 6387:2013 Categories CWZ.
4. The duration of 30 min when tested in accordance with EN 50200:2015 Annex E is achieved by 15 min for the fire and mechanical shock phase and an additional 15 min for the fire, mechanical shock and water phase as described in Clause 26.2d of BS 5839-1:2013.
5. The Firesure Cables listed conform to BS 7629-1:2015, met Class PH60 when tested in accordance with EN 50200: 2015 and met the 30 min duration when tested in accordance with EN 50200:2015 Annex E and hence met the requirements for a standard fire resistant cable as described in Clause 26.2d of BS 5839-1:2013.

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Damien Ward

Signed for LPCB

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Certification Scheme Manager

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