



Doncaster Cables



FIRE PERFORMANCE CABLE



Manufactured to BS 7629-1 Table 1

Plain Annealed Copper Conductors / Silicone Rubber Insulated / Circuit Protective Conductor / Single Layer of Aluminium/Co-Polymer Tape (tape is adhered to the sheathing and will come away with the sheath when stripping the cable) 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: Single Aluminium/Co-Polymer 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



Millfields Industrial Estate, Arksey Lane, Bentley, Doncaster, DN5 0SJ, United Kingdom

t: 01302 821700 f: 01302 821701 e: sales@doncastercables.com

www.doncastercables.com



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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)	1.5	2.5	1.5	2.5	1.5
Recommended Clip (DC)	30	34	32	43	34
Maximum Horizontal Clipping Distance	300	300	300	300	300
Maximum Vertical Clipping Distance	400	400	400	400	400

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

Sales Office: Millfield Industrial Estate, Arksey Lane, Bentley, Doncaster, South Yorkshire, DN5 0SJ
Tel: 01302 821700 Fax: 01302 821701 Email: sales@doncastercables.com





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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)
HFS5002C1.5	2 x 1.5	1/1.38	1 / 1.38	0.7	0.9	7.8	95
HFS5002C2.5	2 x 2.5	1/1.78	1/1.78	0.8	1.0	8.9	140
HFS5003C1.5	3 x 1.5	1/1.38	1/1.38	0.7	0.9	8.3	120
HFS5003C2.5	3 x 2.5	1/1.78	1/1.78	0.8	1.0	10.1	195
HFS5004C1.5	4 x 1.5	1/1.38	1/1.38	0.7	1.0	9.2	140

NOTE: More sizes available in the future or on request

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





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FIRESURE 500 BENEFITS FIRE PERFORMANCE CABLE



Our Firesure 500 cable has been designed for easier stripping whilst retaining the benefits of a helically wrapped design. The Firesure 500 design consists of a specially formulated single co-polymer metallic tape. The tape adheres to the sheath so upon stripping the sheath the tape is also removed.

However, other leading manufacturers of this type of design use a 'longitudinally applied tape'. These longitudinal designs mean that the metallic tape required is simply folded along the inner conductors with a minimum 1mm tape overlap. Firesure 500 was designed to still incorporate a 'helically' applied metallic tape. This helically applied tape design means that the tape is continuously wrapped around the conductors with a minimum tape overlap of 20%.

The sheathing material of Firesure 500 is 'pressure extruded' as opposed to 'tubed extruded'. This means that rather than having the cores loosely placed within the sheath, the sheathing material is pressured onto the cores to fill interstices to allow a compact and solid cable.

The above features allows for the following key performance benefits, whilst still competing with the more electrician friendly termination process of removing the sheath and tape simultaneously.

FIRESURE 500 KEY BENEFITS IN COMPARISON TO OTHER FIRE PERFORMANCE CABLES

- TAPE IS ADHERED TO THE SHEATH (Allows tape and sheath to be removed simultaneously)
- SUPERIOR EARTH CONTINUITY (Pressured sheath allows better contact of tape and CPC)
- ENHANCED RESISTANCE TO CABLE KINKS (Subsequently protecting cables performance)
- EXTREMELY ROBUST/DURABLE DESIGN (Pressured sheath leaves fewer gaps within cable)
- SMALLER OVERALL DIAMETER (Pressured sheath results in more compact cable)
- PREVENTS TRANSMISSION OF SMOKE AND DANGEROUS GASES THROUGH THE CABLE (Due to tightly pressured sheath resulting in minimal air gaps within the cable)

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Tel: 01302 821700 Fax: 01302 821701 Email: sales@doncastercables.com



Certificate of Product Approval

Certificate Number: 338c

Issue: 02

Doncaster Cables

Millfields Industrial Estate
 Arksey Lane
 Bentley
 Doncaster
 South Yorkshire
 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 500
 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 FH120)
 EN 50200:2015 Annex E
 BS 5839-1:2002+A2:2013 (Clause 26.2d)

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

05 October 2011
 Date of First issue



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LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
 T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com



Appendix to Certificate No: 338c Doncaster Cables

Issue: 02

Product name						LPCB Ref. No.
FIRESURE 500						338c/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 ⁽²⁾	C, W, Z	PH120	30min ⁽³⁾	Standard ⁽⁴⁾
1.5 ⁽¹⁾	2,3 & 4	STANDARD 60 ⁽²⁾	C, W, Z	PH120	30min ⁽³⁾	Standard ⁽⁴⁾
2.5 ⁽¹⁾	2,3 & 4	STANDARD 60 ⁽²⁾	C, W, Z	PH120	30min ⁽³⁾	Standard ⁽⁴⁾

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. In meeting the requirements of BS 7629-1:2015, the FIRESURE 500 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.
3. The duration of 60 min when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 15 min for the fire and impact phase and an additional 15 min for the fire, impact and water phase as described in Clause 26.2d of BS 5839-1:2013.
4. The FIRESURE 500 Cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200: 2015 and met the 60 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.

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

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