



# Doncaster Cables



## FIRE PERFORMANCE CABLE

DONCASTER CABLES ENGLAND FIRESURE 1

Manufactured to BS 8592 Table 2

Plain Annealed Copper Conductors / Mineral Ceramic (Mica) Tape / Cross Linked Low Smoke Non Halogen (LSNH) Insulation. 450/750V

**Conductor:** Plain Annealed Copper Class 2 to BS EN 60228

**Fire Resistant Tape:** Mineral Ceramic (Mica)

**Insulation:** Cross Linked 90°C Thermosetting LSNH Type EI5 to BS EN 50363-5 / BS8592

**Current Ratings:** For current ratings refer to table 4E1 of BS7671 IEE Wiring Regulations Seventeenth Edition.

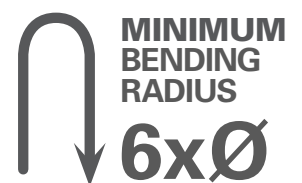
These cables are suitable for use in fixed installations in industrial areas, buildings and similar applications, where the maintenance of power supply during a fire is required for a defined period of time.

Particularly suitable for locations where a defined level of resistance to fire and a low level of emission of smoke and corrosive gases are required when the cable is affected by fire or burning. For use where special fire performance is necessary or where local conditions or regulations require increased levels of public safety.

### STANDARD CORE COLOURS



(Other colours available on request)



**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 :** IEC 60331-3 (Resistance to fire with shock, 2 hour rated (120 minutes))  
BS6387:2013 (Category C – Resistance to fire alone, 3 hours at 950°C)  
BS6387:2013 (Category W – Resistance to fire with water spray)  
BS6387:2013 (Category Z – Resistance to fire with mechanical shock)

### Dimensional Details:

Reference Number	Nominal cross sectional area of conductor (mm <sup>2</sup> )	Nominal stranding of conductor (mm)	Nominal radial thickness of insulation (mm)	Approximate Overall Diameter (mm)	Approximate weight (kg/km)
FS1 1.5	1.5	7 / 0.53	0.7	3.4	23
FS1 2.5	2.5	7 / 0.67	0.8	4.0	35
FS1 4.0	4.0	7 / 0.85	0.8	4.6	52
FS1 6.0	6.0	7 / 1.04	0.8	5.2	71
FS1 710	10.0	7 / 1.35	1.0	6.5	115
FS1 716	16.0	7 / 1.70	1.0	7.6	175
FS1 725	25.0	7 / 2.14	1.2	9.4	265
FS1 735	35.0	7 / 2.52	1.2	10.5	360
FS1 750	50.0	19 / 1.78	1.4	12.4	500
FS1 770	70.0	19 / 2.14	1.4	14.1	670
FS1 795	95.0	19 / 2.52	1.6	16.4	945
FS1 8120	120	37 / 2.03	1.6	17.9	1215
FS1 8150	150	37 / 2.25	1.8	19.9	1475
FS1 8185	185	37 / 2.52	2.0	22.1	1790

NOTE: 1.5mm<sup>2</sup> to 70mm<sup>2</sup> are manufactured to BS8592:2016

95mm<sup>2</sup> to 185mm<sup>2</sup> are manufactured 'Generally to BS8592:2016' and are NOT BASEC approved

Weights and dimensional figures are 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](mailto:sales@doncastercables.com)





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Firesure 1 is a Fire Resistant Single Core Cable manufactured by Doncaster Cables in the United Kingdom and is for use in emergency safety circuits to maintain circuit integrity under fire conditions.

Firesure 1 has obtained approval from the British Approvals Service for Cables (BASEC).

The cables are certified as fire resistant through compliance to BS8592:2016 (up to and including 70mm<sup>2</sup>). BS8592:2016 includes fire testing in accordance with IEC 60331-3, this test specifies that the cables maintain circuit integrity under fire conditions for 120 minutes (2 hour rating).

In addition to BS8592:2016 requirements, Firesure 1 has been tested in accordance with BS6387:2013 and achieved rating 'CAT CWZ'. Cat C = resistance to fire alone, 3 hours at 950°C. Cat W = Resistance to fire with water spray. Cat Z = Resistance to fire with mechanical shock).

Our Firesure 1 Range is designed for laying in metallic conduit or in cable trunking where electrical circuit integrity under fire circumstances is of the upmost importance.

Firesure 1 is tested in accordance with BS EN 60754-1 (determination of halogen acid gas content) – as there is no halogen or acidic gas emission during fire/burning conditions, any sensitive equipment in surrounding areas are not affected adversely.

Firesure 1 is tested in accordance with BS EN 61034-2 (measurement of smoke density of cables burning under defined conditions) – low smoke generation allows better visibility in fire/burning conditions. This increased visibility can be essential to allow emergency evacuations and to help fire fighters in any rescue operations.