



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

Binding Tape: 'Easy tear' polyester tape which allows easier removal of the sheath

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

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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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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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 (ph30, ph60 and ph120)
 EN 50200:2015 Annex E – Resistance to fire with mechanical shock and water
 BS 5839-1 Clause 26.2d (Standard)

RELEVANT STANDARDS: BS EN 60332-1-2 (Vertical flame propagation)
 BS EN 60754-1 (Emission of acid gas)
 BS EN 61034-2 (Smoke density)

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	1.5	2.5	1.5	2.5
Recommended Clip (DC)	26	30	34	47	32	43	34	47
Maximum Horizontal Clipping Distance	300	300	300	300	300	300	300	300
Maximum Vertical Clipping Distance	400	400	400	400	400	400	400	400

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)
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
HFS5002C4.0	2 x 4.0	7/0.85	7/0.85	0.8	1.1	10.9	231
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
HFS5004C2.5	4 x 2.5	1/1.78	1/1.78	0.8	1.0	11.0	228

NOTE: More sizes available in the future or on request

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