

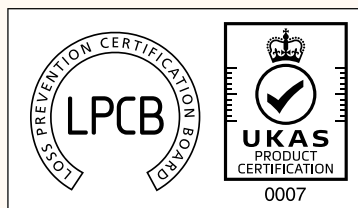
# Firecel SR 114H

**SILICONE INSULATION / OVERALL SCREEN  
SOLID & STRANDED CONDUCTOR**



## STANDARD CABLE 300/500 V

**BS 5839-1:2017** Clause 26.2d  
**BS EN 50200:2015 (PH 30 - PH 60 - PH 120)** 830°C  
 fire and mechanical shocks  
**BS EN 50200:2015 + Annex E** 830°C - 30 min.  
 (15 min. fire and mechanical shocks + 15 min. fire mechanical  
 shocks and water spray)  
**BS 6387:2013**  
**Cat. C** fire @ 950°C - 180 min  
**Cat. W** fire 15 min. + fire and water spray 15 min.  
**Cat. Z** fire and mechanical shocks  
 @ 950°C - 15 min.fire



LPCB ref. 217f  
 (cables up to 4 cores)  
 For the scope of the LPCB  
 Approval see  
[www.redbooklive.com](http://www.redbooklive.com)



For the scope  
 of the BASEC Approval  
 see [www.basec.org.uk](http://www.basec.org.uk)

PRODUCT MARKING LICENCE N°: 211/001

### Applications

**FIRECEL SR 114H** are primarily intended  
 for general application.

Typical applications are:

**BS 5839-1** for **standard** fire resistant  
 cables in fire detection and fire alarm  
 systems for building

**BS 5839-8** for voice alarm systems

**BS 5839-9** for emergency voice  
 communication systems.

**BS 5266-1** for emergency lighting of  
 premises (PH60)

**BS 8519** for fire-resistant control cable  
 systems for life safety and fire-fighting  
 application - Category 1

### Operating temperature

-40°C to +90°C

### Minimum bending radius

6 times the outer diameter.

### Cable construction

#### Conductors

Plain annealed copper wire, solid class  
 1 or stranded class 2 according to EN  
 60228.

#### Insulation

High performance fire resistant silicone  
 rubber type EI2 to BS EN 50363-1.

#### Cabling

Insulated cores are cabled together.

#### Overall screen

Aluminium/polyester tape.

#### Circuit protective conductor or drain wire

Uninsulated tinned copper conductor  
 of the same section and class as the  
 insulated conductors in the 2-, 3- and  
 4-core cables. Drain wire of 0.5 mm<sup>2</sup>  
 tinned copper conductor is provided in  
 cables with more than 4 conductors.

#### Outer sheath

LSZH thermoplastic material type LTS3 to  
 BS 7655-6.1.

Colour red or white (other colours on  
 request).

### Colour code up to 4 cores to HD 308

- 2 cores: ● ●
- 3 cores: ● ● ●
- 4 cores: ● ● ● ●
- 7 cores: centre ●  
 1st layer ● ● ● - 4 cores ○
- 12 cores: centre ● ● ● ● ● ● ● ●  
 1st layer ● ● ● ● ● ● - 7 cores ○
- 19 cores: centre ●  
 1st layer ● ● ● ● - 4 cores ○  
 2nd layer ● ● ● ● - 10 cores ○

*(on request the cores can be one colour only,  
 identified by printed numbers)*

### Applicable Standards

#### Basic design

BS 7629-1

#### Fire resistant

BS 6387 (cat. C-W-Z)

BS EN 50200 (PH30 - PH60 - PH120)

BS EN 50200 annex E (fire, mechanical  
 shock and water spray)

IEC 60331

#### Flame retardant

BS EN 60332-1-2

#### Fire retardant

BS EN 60332-3-24 (cat. C)

#### Acid gas emission

BS EN 60754-1

#### Smoke density

BS EN 61034-2

N° of cores x size (mm <sup>2</sup> )	Outer diameter (mm)	Weight (kg/km)
<b>1 mm<sup>2</sup> solid</b>		
2x1.0	7.1	70
3x1.0*	7.6	85
4x1.0*	8.3	110
7x1.0	10.0	165
12x1.0	12.5	255
19x1.0	15.0	380
<b>1.5 mm<sup>2</sup> solid</b>		
2x1.5	8.0	95
3x1.5	8.5	115
4x1.5	9.4	140
7x1.5	11.3	225
12x1.5	14.5	340
19x1.5	17.0	520
<b>1.5 mm<sup>2</sup> stranded</b>		
2x1.5	8.4	100
3x1.5	8.9	125
4x1.5	9.8	155
<b>2.5 mm<sup>2</sup> solid</b>		
2x2.5	9.4	130
3x2.5	10.0	170
4x2.5	11.0	210
<b>2.5 mm<sup>2</sup> stranded</b>		
2x2.5	9.9	145
3x2.5	10.3	180
4x2.5	11.7	230
<b>4 mm<sup>2</sup> stranded</b>		
2x4	11.5	200
3x4	12.2	260
4x4	13.5	330

Approximate values

\* not included in BS 7629-1:2015 and in LPCB/BASEC  
 approval.