

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



For the scope
of the BASEC Approval
see www.basec.org.uk

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.

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 mm²
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).

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

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

Operating temperature

-40°C to +90°C

Minimum bending radius

6 times the outer diameter.

N° of cores x size (mm ²)	Outer diameter (mm)	Weight (kg/km)
1 mm² solid		
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
1.5 mm² solid		
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
1.5 mm² stranded		
2x1.5	8.4	100
3x1.5	8.9	125
4x1.5	9.8	155
2.5 mm² solid		
2x2.5	9.4	130
3x2.5	10.0	170
4x2.5	11.0	210
2.5 mm² stranded		
2x2.5	9.9	145
3x2.5	10.3	180
4x2.5	11.7	230
4 mm² stranded		
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.