FIRECEL SR 114H

Conducting Value

Silicone Insulation, Overall Screen, Solid & Stranded Conductor

Standard Cable 300/500 V
BS 5839-1:2013 Clause 26.2d
BS EN 50200:2006 (PH 30 - PH 60 - PH 120) 830°C fire and mechanical shocks
BS EN 50200:2006 + 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 and water @ 650°C - 15 + 15 min. Cat. Z fire and mechanical shocks @ 950°C - 15 min.

Cables up to 4 cores approved by LPCB, certificate N° 217f

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

Applicable Standards

Basic design	BS 7629-1
Fire resistant	BS 6387 (cat. C-W-Z) BS EN 50200 (class PH30 - PH60 - PH120) BS EN 50200 annex E (fire, mechanical shock and water spray)
Flame retardant	BS EN 60332-1-2 BS EN 60332-3-24 cat. C
Acid gas emission	BS EN 50267-2-1 amd. 2
Smoke density	BS EN 61034-2

Cable construction

Conductors
Plain annealed copper wire, solid class 1 or stranded class 2 according to BS 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).

Colour code up to 4 cores to HD 308

2 cores		blue - brown
3 cores		brown - black - grey
4 cores		blue - brown - black - grey
7 cores*	centre:	brown
	1st layer:	brown - black - 4 cores white
12 cores*	centre:	brown - black - white
	1st layer:	brown - black - 7 cores white
19 cores*	centre:	brown
	1st layer:	brown - black - 4 cores white
	2nd layer:	brown - black - 10 cores white

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

N° of cond. x cross section (mm²)	*Size of conductors (n°/mm)*	*Size of earth wire (n°/mm)*	*Outer diameter (mm)*	*Weight (kg/km)*	*P clips type*
1 mm² solid					
2x1.0	1/1.13	1/1.13	7.1	70	AC7
3x1.0	1/1.13	1/1.13	7.6	85	AC8
4x1.0	1/1.13	1/1.13	8.3	110	AC8
7x1.0	1/1.13	1/0.80*	10.0	165	AC11
12x1.0	1/1.13	1/0.80*	12.5	255	AC12
19x1.0	1/1.13	1/0.80*	15.0	380	AC16
1.5 mm² solid					
2x1.5	1/1.38	1/1.38	8.0	95	AC8
3x1.5	1/1.38	1/1.38	8.5	115	AC8
4x1.5	1/1.38	1/1.38	9.4	140	AC9
7x1.5	1/1.38	1/0.80*	11.3	225	AC11
12x1.5	1/1.38	1/0.80*	14.5	340	AC14
19x1.5	1/1.38	1/0.80*	17.0	520	
1.5 mm² stranded					
2x1.5	7/0.53	7/0.53	8.4	100	AC8
3x1.5	7/0.53	7/0.53	8.9	125	AC9
4x1.5	7/0.53	7/0.53	9.8	155	AC11
2.5 mm² solid					
2x2.5	1/1.75	1/1.75	9.4	130	AC9
3x2.5	1/1.75	1/1.75	10.0	170	AC11
4x2.5	1/1.75	1/1.75	11.0	210	AC11
2.5 mm² stranded					
2x2.5	7/0.67	7/0.67	9.9	145	AC11
3x2.5	7/0.67	7/0.67	10.3	180	AC11
4x2.5	7/0.67	7/0.67	11.7	230	AC11
4 mm² stranded					
2x4	7/0.85	7/0.85	11.5	200	AC11
3x4	7/0.85	7/0.85	12.2	260	AC12
4x4	7/0.85	7/0.85	13.5	330	AC13

* drain wire

approximate values