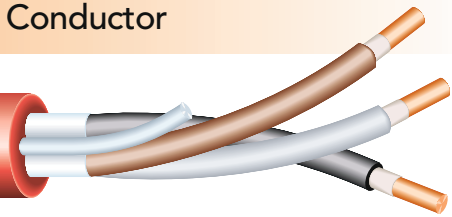


FIRECEL SR 114E

FIRECEL SR 114E

FIRECEL SR 114E



Enhanced Cable 300/500 V

BS 5839-1:2013 Clause 26.2e
BS EN 50200:2006 (PH 120) 830°C fire and mechanical shocks
BS 8434-2:2003 +A2:2009 930°C - 120 min. (60 min. fire and mechanical shocks + 60 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° 217g

Applications

FIRECEL SR 114E are primarily intended for use in fire detection and fire alarm systems, emergency lighting circuits or if cables need to properly operate when **fire resistance improvement is required**.

Typical applications are:

- **BS 5839-1** for enhanced 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
- **BS 8519** for fire-resistant control cable systems for life safety and fire-fighting application - Category 2

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 PH120) BS EN 50200 annex E (fire, mechanical shock and water spray) BS 8434-2 (120 min)
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

Mica/Glass fire resistant tape covered by 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

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 (mm ²)	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	7.9	85	AC8
3x1.0	1/1.13	1/1.13	8.4	105	AC9
4x1.0	1/1.13	1/1.13	9.3	125	AC9
7x1.0	1/1.13	1/0.80*	10.9	175	AC11
12x1.0	1/1.13	1/0.80*	14.5	300	AC14
19x1.0	1/1.13	1/0.80*	17.0	470	AC18
1.5 mm² solid					
2x1.5	1/1.38	1/1.38	8.8	105	AC8
3x1.5	1/1.38	1/1.38	9.3	130	AC9
4x1.5	1/1.38	1/1.38	10.3	165	AC11
7x1.5	1/1.38	1/0.80*	12.1	230	AC12
12x1.5	1/1.38	1/0.80*	16.0	380	AC16
19x1.5	1/1.38	1/0.80*	19.0	590	AC19
1.5 mm² stranded					
2x1.5	7/0.53	7/0.53	9.2	110	AC9
3x1.5	7/0.53	7/0.53	9.7	135	AC11
4x1.5	7/0.53	7/0.53	10.5	170	AC11
2.5 mm² solid					
2x2.5	1/1.75	1/1.75	10.2	150	AC11
3x2.5	1/1.75	1/1.75	10.8	190	AC11
4x2.5	1/1.75	1/1.75	12.0	240	AC12
2.5 mm² stranded					
2x2.5	7/0.67	7/0.67	10.6	155	AC11
3x2.5	7/0.67	7/0.67	11.3	190	AC11
4x2.5	7/0.67	7/0.67	12.5	250	AC12
4 mm² stranded					
2x4	7/0.85	7/0.85	12.2	220	AC12
3x4	7/0.85	7/0.85	13.0	280	AC13
4x4	7/0.85	7/0.85	14.4	350	AC14

* drain wire

approximate values