SHIELD®

‘Premium’
Fire Performance Cable

www.shieldglobal.com

‘Premium’ Fire Performance Cable

Low Smoke & Zero Halogen emissions under fire conditions.

Introducing SHIELD 'Premium' Fire Performance Cable - independently approved by LPCB to meet all fire and fume emission testing detailed by BS 5839-1:2013

Certified by LPCB to meet fire test Standards –
BS EN 50200:2006 + Annex E 30 minutes, BS EN 50200 PH30, PH60 & PH120 & BS 6387 CWZ. It is also fully approved to the Low Smoke & Zero Halogen requirements detailed by BS 5839-:2013 & BS7629-1:2008.

Shield ‘Premium’ Cable retains continuity for 30 minutes under fire conditions at 830°C, this demanding fire cable test includes a final 15 minutes under fire & water spray conditions while a mechanical shock is applied every 5 minutes throughout the full 30 minute test.

Also approved to meet a 3 hours fire only duration test at 950°C and a 2 hour duration test with fire and mechanical shock applied every 5 minutes at 830°C.

Emergency Lighting Systems

Many Emergency Lighting Systems now require
a Fire Performance cable to meet BS EN 50200:2006 PH60 –
a one hour fire performance test.
Shield ‘Premium’ fire cable is certified by LPCB
to meet twice the required duration to PH120,
a two hour duration.

Be Safe - Insist on Shield Fire Cable for all Emergency Lighting Systems

Features

- Reduced Installation time and costs
- Easy to install and Superb Working Flexibility
- All in one - Easy to Strip Outer Sheath
- No Separate Foil
- No Additional Fibre Wraps
- No mica tape on conductors
- No additional core separators to remove
- Cable Construction Provides High Level Data Protection

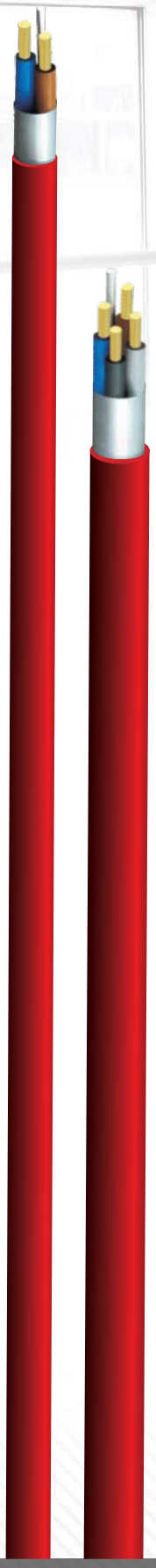
The Fastest Fire Cable to Install

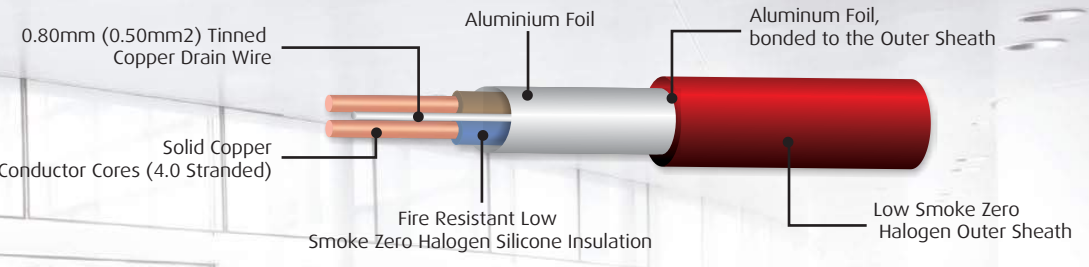
Shield ‘Premium’ Fire Cable is available in a variety of multiple core combinations all with CPC (circuit protection conductor). 500m reels and other special lengths are available.

Supplied On Robust Plastic Reels; Installer safe and easy handling, Better Reeling and damage resistant, Weather and moisture resistant

Sheath	Conductor	2 Core - 100m	2 Core - 500m
Red	1.0mm²	SD-XPC210 – R100	SD-XPC210 – R500
	1.5mm²	SD-XPC215 – R100	SD-XPC215 – R500
	2.5mm²	SD-XPC225 – R100	SD-XPC225 – R500
White	1.0mm²	SD-XPC210 – W100	SD-XPC210 – W500
	1.5mm²	SD-XPC215 – W100	SD-XPC215 – W500
	2.5mm²	SD-XPC225 – W100	SD-XPC225 – W500

Other Sizes and Sheath Colours Available.





LPCB approved to	Fire Resistance Standard	BS EN 50200:2006 +Annex E 30 mins.
	Fire Resistance Standard	BS EN 50200:2006 PH120
	Fire Resistance Standard	BS 6387:1994 Clause 11 CWZ
	Halogen Emission Standard	BS EN 50267-2-1:1999
	Low Smoke Standard	BS EN 61034-2:2005
Also for use with	Emergency Lighting	BS 5266-1:2005
	Voice Alarm Systems Standard	BS 5839-8:2008
	Voice Communication Standard	BS 5839-9:2003
	(Risk Assessment May Demand Mechanical Protection)	
Materials	Drain Wire	0.80mm Dia (0.50mm2) Tinned Copper
	Conductors	Plain Annealed Copper
	Core Installation	Fire Resistant ZHLS Silicone
	Screening	Aluminium Foil
	Outer Sheath	Low Smoke Halogen Free Thermoplastic
Working Voltage	Core to Core	500V
	Core to CPC	300V
Types	Outer Sheath Colours	Red, White or Black
	Number of Cores	2, 3 & 4 Core
	Inner Cores CSA	1.0, 1.5, 2.5 & 4.0mm CSA
Resistance	1.0mm CSA	18.1 Ohms / 1 Km
	1.5mm CSA	12.1 Ohms / 1 Km
	2.5mm CSA	7.41 Ohms / 1 Km
	4.0mm CSA	4.61 Ohms / 1 Km
Minimum Bend Radius	Radius = 6 x Diameter	
Operating Temp.	Minimum/Maximum	- 40°C to +90°C
Installation Temp.	Minimum/Maximum	0°C to +70°C
Voltage Drop (DC or Single PhaseAC)	1.0mm CSA	44 Ohms mV /A / m
	1.5mm CSA	29 Ohms mV /A / m
	2.5mm CSA	18 Ohms mV /A / m
Approximate Overall Diameter	2 Core	1.0mm / 7.15mm
		1.5mm / 7.40mm
		2.5mm / 8.70mm
	3 Core	1.0mm / 7.75mm
		1.5mm / 8.55mm
		2.5mm / 9.20mm
	4 Core	1.0mm / 8.00mm
		1.5mm / 8.80mm
		2.5mm / 1.10mm
Approximate Weights	2 Core with CPC	1.0mm 8.0 Kg / 100 m
		1.5mm 9.5 Kg / 100 m
		2.5mm 14.1 Kg / 100 m
	3 Core with CPC	1.0mm 9.5 Kg / 100 m
		1.5mm 12.9 Kg / 100 m
		2.5mm 19.1 Kg / 100 m
	4 Core with CPC	1.0mm 10.9 Kg / 100 m
		1.5mm 14.5 Kg / 100 m
		2.5mm 22.2 Kg / 100 m
Current Rating (Current Ratings listed are at 30°C Refer to BS7671/EE Wiring Regulations for de-rating factor)	Cable Clipped (DC or Single Phase AC)	1.0mm 15A
		1.5mm 19.5A
		2.5mm 27A
	Enclosed (DC or Single Phase AC)	1.0mm 13A
		1.5mm 16.5A
		2.5mm 23A
Insulation Resistance	10MÙ> at 5000V d.c.	
Capacitance Rating	1.5mm CSA	
	2 Core & CPC } 3 Core & CPC }	Core to Core - Average 70 pF/m Core to Screen - Average 130 pF/m
	4 Core & CPC ~	Core to Core - Average 75 pF/m Core to Core - Average 150 pF/m
	2.5mm CSA	
	2 Core & CPC } 3 Core & CPC }	Core to Core - Average 80 pF/m Core to Screen - Average 145 pF/m
	4 Core & CPC ~	Core to Core - Average 85 pF/m Core to Screen - Average 165 pF/m
Warranty	Period	10 Years from Date of Manufacture
	Identification	Date of Manufacture Marked On Cable

SHIELD FIRE, SAFETY AND SECURITY LTD
Redburn House, 2A Tonbridge Road, Romford, Essex – RM3 8QE, United Kingdom
Tel: +44 1708 377731, Fax: +44 1708 347637, E-mail: shielduk@shieldglobal.com
www.shieldglobal.com