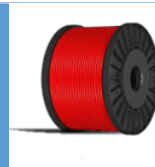


Datasheet

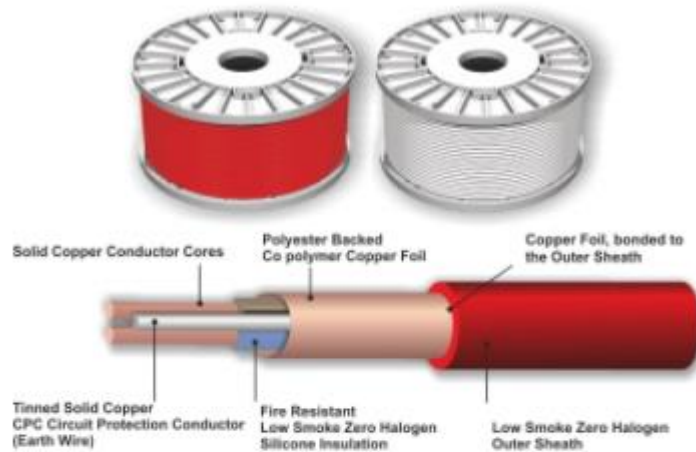
# RS Pro Enhanced Fire Performance Cable



RS Article	Colour	CSA	Reel	Cores
8412436	Red	1.5 mm	100 m	2 Cores & CPC
8412451	Red	1.5 mm	500 m	2 Cores & CPC
8412454	Red	1.5 mm	100 m	4 Cores & CPC
8412460	Red	2.5 mm	100 m	2 Cores & CPC



RS Article	Colour	CSA	Reel	Cores
8412448	White	1.5 mm	100 m	2 Cores & CPC
8412442	White	1.5 mm	100 m	3 Cores & CPC
8412458	White	1.5 mm	100 m	4 Cores & CPC
8412467	White	2.5 mm	100 m	2 Cores & CPC



Red and White Enhanced Fire Cable

## Approved and Certified to meet

▶ BS 5839-1:2013 Clause 26.2e	'Enhanced' Fire Cable
▶ BS 8519:2010 Category 2	Fire Resistance Standard
▶ BS 8434-2:2003 120 mins.	Fire Resistance Standard
▶ BS EN 50200:2006 PH30, PH60 & PH120	Fire Resistance Standard
▶ BS 7629-1:2008	Fire Resistance Standard
▶ BS 6387:1994 Clause 11 CWZ	Fire Resistance Standard
▶ BS EN 50267-2-1:1999	Halogen Emission Standard
▶ BS EN 61034-2:2005	Low Smoke Standard

## Manufacturers Recommended Installation Guide Lines

Recommended metal clip spacing 300mm Horizontal, 400mm Vertical

Recommended Cable Tray Fastening - Metal Tie, spacing every 1.5 metres.

Installation Temperatures:

Minimum installation Temperature 0°C

Maximum installation Temperature 70 C

Operating Temperature Temperature:

Minimum -40 C to Maximum +90 C

The cable should not be flexed or bent when either the cable or operating temperature is below the recommended installation temperatures.

Minimum Bend Radius = 6 x Diameter

Plastic Clips or ties must not be used as the sole means of support for fire cable.

## Specifications

LPCB & BASEC approved to	'Enhanced' Fire Cable Fire Resistance Standard Fire Resistance Standard Fire Resistance Standard Fire Resistance Standard Fire Resistance Standard Halogen Emission Standard Low Smoke Standard	BS 5839-1:2013 Clause 26.2e BS 5819:2010 Category 2 BS 8434-2:2003+A2:2009 120 mins BS EN 50200:2006 PH30, PH60 & PH120 BS 7629-1:2008 BS 6387:2013 Clause 6, 7 & 8 CWZ BS EN 50267-2-1:1999 BS EN 61034-2:2005
Designed to comply to	Emergency Lighting Voice Alarm Systems Standard Voice Communication Standard	BS 5266-1:2011 BS 5839-8:2013 BS 5839-9:2013
Materials	CPC (Earth) Conductors Core Installation Screening Outer Sheath	Tinned Annealed Copper Plain Annealed Copper Fire Resistant Silicone Copper Foil Low Smoke Halogen Free Thermoplastic
Working Voltage	Core to Core Core to CPC	500V 300V
Types	Outer Sheath Colours Number of Cores Inner Cores CSA	Red or White 2, 3 & 4 Core 1.0, 1.5, 2.5 & 4.0mm <sup>2</sup> CSA
Resistance	1.0mm <sup>2</sup> CSA 1.5mm <sup>2</sup> CSA 2.5mm <sup>2</sup> CSA 4.0mm <sup>2</sup> CSA	18.1 Ohms / 1Km 12.1 Ohms / 1Km 7.41 Ohms / 1Km 4.61 Ohms / 1Km
Minimum Bend Radius	Radius = 6 x Diameter	
Operating Temp. Installation Temp.	Minimum/Maximum Minimum/Maximum	- 40°C to + 90°C. 0°C to + 70°C
Voltage Drop (DC or Single Phase AC)	1.0mm <sup>2</sup> CSA 1.5mm <sup>2</sup> CSA 2.5mm <sup>2</sup> CSA 4.0mm <sup>2</sup> CSA	44 Ohms mV / A / m 29 Ohms mV / A / m 18 Ohms mV / A / m 11 Ohms mV / A / m
Approximate Overall Diameter	2 Core  3 Core  4 Core	1.0mm <sup>2</sup> / 8.00mm 1.5mm <sup>2</sup> / 8.20mm 2.5mm <sup>2</sup> / 8.80mm 4.0mm <sup>2</sup> / 10.20mm  1.0mm <sup>2</sup> / 8.90mm 1.5mm <sup>2</sup> / 9.90mm 2.5mm <sup>2</sup> / 10.80mm 4.0mm <sup>2</sup> / 13.10mm  1.0mm <sup>2</sup> / 10.40mm 1.5mm <sup>2</sup> / 11.10mm 2.5mm <sup>2</sup> / 12.60mm 4.0mm <sup>2</sup> / 15.00mm
Approximate Weights	2 Core with CPC  3 Core with CPC  4 Core with CPC	1.0mm <sup>2</sup> 8.2 Kg / 100 m 1.5mm <sup>2</sup> 9.7 Kg / 100 m 2.5mm <sup>2</sup> 14.4 Kg / 100 m 4.0mm <sup>2</sup> 24.0 Kg / 100m  1.0mm <sup>2</sup> 9.8 Kg / 100 m 1.5mm <sup>2</sup> 13.2 Kg / 100 m 2.5mm <sup>2</sup> 19.4 Kg / 100 m 4.0mm <sup>2</sup> 28.0 Kg / 100 m  1.0mm <sup>2</sup> 11.2 Kg / 100 m 1.5mm <sup>2</sup> 14.8 Kg / 100 m 2.5mm <sup>2</sup> 22.7 Kg / 100 m 4.0mm <sup>2</sup> 50.0 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)  Enclosed (DC or Single Phase AC)	1.0mm <sup>2</sup> 15A 1.5mm <sup>2</sup> 19.5A 2.5mm <sup>2</sup> 27A 4.0mm <sup>2</sup> 36A  1.0mm <sup>2</sup> 13A 1.5mm <sup>2</sup> 16.5A 2.5mm <sup>2</sup> 23A 4.0mm <sup>2</sup> 30A
Capacitance Rating	1.5mm <sup>2</sup> CSA 2 Core & CPC } 3 Core & CPC }  4 Core & CPC -  2.5mm <sup>2</sup> CSA 2 Core & CPC } 3 Core & CPC } 4 Core & CPC }	Core to Core      - Average 70 pF/m Core to Screen    - Average 125 pF/m  Core to Core      - Average 75 pF/m Core to Screen    - Average 150 pF/m  Core to Core      - Average 85 pF/m Core to Screen    - Average 155 pF/m
Warranty	Period Identification	10 Years from Date of Manufacture Date of Manufacture Marked On Cable