



FR - 3S Fire Resistant Power Cables

APPLICATION

Single core cable is suitable use in fire extinguishing systems to operate sprinklers, control panels, exit lights in high-rise buildings, hotels, hospitals, sub-ways and public facilities.

Twin Twisted cable option is having the similar product characteristics and product feature, which comply with all the fire testing requirements.

Twin Twisted cable is your ultimate choice for fire services installation, emergency power supply, especially for fire alarm addressable system and other essential services where twisting and flexibility and prerequisites.

CONSTRUCTION

- | | |
|-----------------------------|--|
| 1. Conductor | : Plain Annealed, Stranded Circular
Non-Compacted or Circular Compacted |
| 2. Fire Barrier | : Mica Tape |
| 3. Insulation | : LSOH |
| 4. Insulation Colour | : |
| Single Core | - Orange, Brown, Grey, Blue, Black,
Green/Yellow, White, Red, Yellow |
| Two Cores
(Twin Twisted) | - Red & Black or other combinations |

TECHNICAL DATA

- | | |
|-----------------------|---|
| Applicable Standard | : BS 7211 |
| Rated Voltage | : 450/750 V (or 600/1000 V *) |
| Testing Voltage | : 2.5 KV / 15 min (or 3.5 KV / 5 min *) |
| Operating Temperature | : Max. 90 °C |

PRODUCT FEATURES

Single Core FR - 3S 450/750 V or 600/1000 V *	FR - 3S Twin Twisted 450/750 V or 600/1000 V *
IEC 60331-21 SS 299-1 Cat. C SS 299-1 Cat. W, Z * BS 6387 Cat. C, W, Z * IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60754-1 & IEC 60754-2 IEC 61034-1 & IEC 61034-2 Oxygen Index - Min. 30% H. V. Test - 3.5 KV / 5 min *	IEC 60331-21 SS 299-1 Cat. C, W, Z BS 6387 Cat. C, W, Z IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60754-1 & IEC 60754-2 IEC 61034-1 & IEC 61034-2 Oxygen Index - Min. 30% H. V. Test - 3.5 KV / 5 min *

Note : * = On Request

Number of Cores	Nominal Area of Conductor	Approx. Overall Diameter	Approx. Weight
No.	mm ²	mm	Kg / Km
1	1.0 rm	3.1	18
	1.5 rm	3.5	24
	2.5 rm	4.1	36
	4 rm	4.6	50
	6 rm	5.2	70
	10 rm	6.5	120
	16 rm	7.6	180
	25 cm	9.0	275
	35 cm	10.2	370
	50 cm	11.8	505
	70 cm	13.4	705
	95 cm	15.8	975
	120 cm	17.1	1210
	150 cm	18.8	1485
	185 cm	21.0	1860
2	1.0 rm	6.3	40
	1.5 rm	7.1	50
	2.5 rm	8.3	80

rm : Stranded Circular Non-Compacted

cm : Stranded Circular Compacted

PRODUCT CERTIFICATION

TÜV SÜD PSB Pte Ltd. - Product Listing Scheme (PLS)

1 C X 1.5 mm² ~ 1 C X 4 mm² 450/750 V to SS 299-1 Cat. C

1 C X 1.5 mm² ~ 1 C X 4 mm² 600/1000 V to SS 299-1 Cat. C

2 C X 1.0 mm² ~ 2 C X 2.5 mm² 450/750 V to SS 299-1 Cat. C, W, Z