

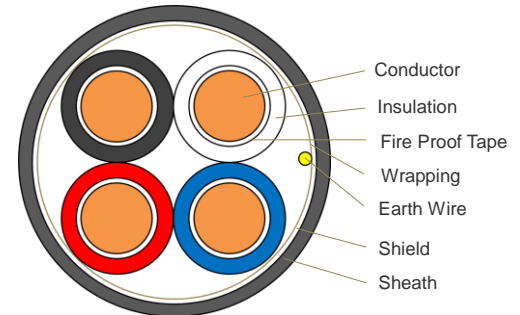


FIRECARE™

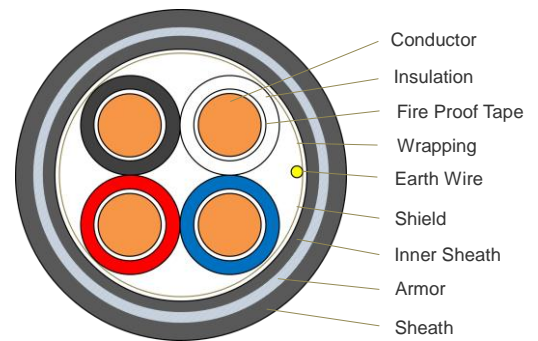
FR-LS Series Fire Resistant Cable

Features:

- Suitable for fire alarm system and public address system
- FIRECARE™ FR-LS Series Fire resistant cable design
- Low smoke zero halogen with fire retardant sheath
- Conductor size: 1.0mm² to 2.5mm² (IEC 60228, BS 6360)
- Reference Standards: IEC 60708, IEC 60189-1, IEC 60228, BS 5099, BS EN 50200 (PH30), BS EN 60702, BS EN 50356, BS EN 62230, BS 6724, BS 7629-1, BS 7846, BS 5308, BS 4808, BS 6360, BS 3573
- Complies with
 - Fire Resistance IEC 60331-23, BS 6387 CWZ
 - Flammability ASTM D-2863, BS EN ISO 4589-3
 - Flame propagation IEC 60332-1, IEC 60332-3-24
 - Gas Emission IEC 60754-1 & 2
 - Smoke Emission IEC 61034-2



Non-armoured



Armoured



- FIRECARE series include optical fiber and copper cables.
- Manufactured from fire resistant / fire retardant and LSZH materials.
- Comply with related international standards and are tested by independent laboratory.

Construction Characteristic:

Parameter	Value
Conductor	Stranded Copper
Fire Barrier	Fire Proof Tape
Insulation Material	XLPE or LSZH
Earth Wire Material	Tinned Copper
Shield Material	Alumina-polyester Tape
Armour Material	Steel Wire Braiding (optional)
Sheath Material	Low Smoke Zero Halogen (Black)

Electrical Characteristic:

1.5mm ² / 2.5mm ² Conductor Parameter	Value
Conductor Resistance	max 12.6 Ω/km
Insulation Resistance	min 100 MΩ/km
Earth Wire Resistance	36.7 ± 8% Ω/km
Mutual Capacitance	max 160 nF/km @ 800Hz
Attenuation (nominal)	0.88 dB/km @ 800Hz
Inductance (nominal)	0.75 mH/km
Rated Voltage	220V



Electrical Characteristic:

1mm ² Conductor Parameter	Value
Conductor Resistance	max 18.5 Ω/km
Insulation Resistance	min 500 MΩ/km
Earth Wire Resistance	36.7 ± 8% Ω/km
Mutual Capacitance (1kHz)	max 135 nF/km
Attenuation (1kHz)	max 1.5 dB/km
Rated Voltage	220V

Mechanical Characteristic:

Parameter	Value
Pulling tension	max 35 kgf
Bending radius	min 5 x OD
Operational temperature	-20 to 60 °C
Humidity	Up to 100 %

Colour Code Identification (Example for 2-pair):

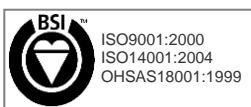
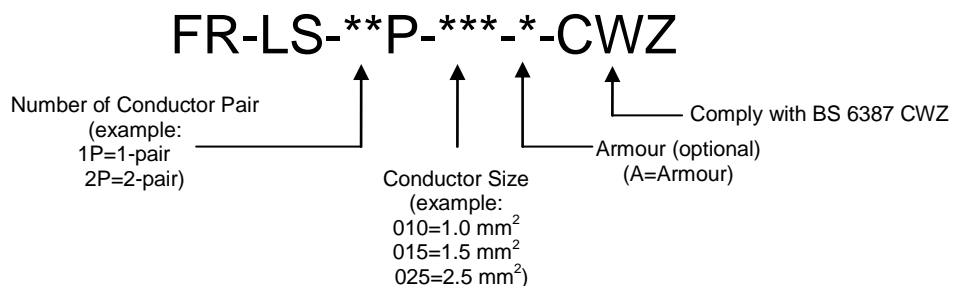
Core	Colour of insulation
1	Black
2	White
3	Red
4	Blue

Ordering Information:

Order No.	No. of Pair	Conductor Size (mm ²)	*Outer Diameter (mm)
FR-LS-1P-010-CWZ	1	1.0	10.0
FR-LS-1P-015-CWZ	1	1.5	10.5
FR-LS-2P-015-A	2	1.5	15.6

*Note: ± 1mm tolerance

Ordering No.:



*These figures are nominal value.
* Infinite Cable System reserves the right to modify products and specifications without prior notice.

