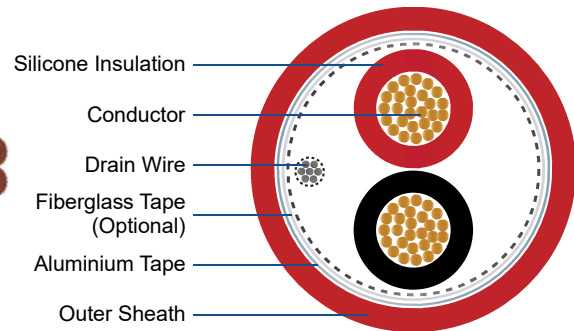


SHIELDED FIRE RESISTANT DATA CABLE

Silicone Fire Barrier



Description

- Multipair twisted cable with silicone fire barrier, Aluminum Mylar Tape Shield and Drain wire
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Packaged on Wooden Reel
- ISO 9001 : 2015, ISO 14001 : 2015 and RoHS compliant

Application

- Internal wiring of electronic equipment, transmission measurement and control signals with minimum noise.
- Industrial, Data, Interconnect
- Public Address, Fire Alarm systems
- Optimized for BMS system
- *This product is not permitted for use in power applications.*

Technical Data

Application standard	BS EN 50288-7:2005
Temperature range	-20° C to +90° C
Operating peak Voltage (not for power application)	300/ 500 V 600/1000 V (option available on request)
Test voltage	2000 V
Minimum bending radius	Fixed 7.5 x cable Ø
Insulation resistance	> 5000 MΩxkm
Mutual capacitance	C/C: < 100 pF/m C/S: < 200 pF/m
Inductance	< 0.3 mH/km
Impedance	60 Ω

Cable Structure

- **Conductor:** Bare copper conductor, multiple wired according to IEC 60228 (Class 2/ Class 5) or ASTM (B 3/ B 33).
- **Core Insulation (fire barrier):** Cross-linked ceramic forming polymer (Silicone) compound.
Cores are twisted together in pairs.
- **Overall Screen:** Aluminum Mylar tape over tinned copper stranded drain wire.
- **Outer sheath:** PVC or FR-PVC (acc. to EN 50290-2-22) or LSZH (acc. to EN 50290-2-27). Red color.

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Tests

- Fire resistant according to IEC 60331-21
- Flame retardant according to IEC 60332-1-2
- Flame test on bunched wires according to IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires according to IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases according to IEC 60754-2
- Smoke density according to IEC 61034-1
- Halogen-free according to IEC 60754-1
- Oil resistant according to IEC 60811-404
- Suitable for usage in explosive atmospheres acc. to IEC 60079-14 sec. 16.2.2

Part Number

LS	-	SFRS	-	X	-	Y	Z	-	S	B	-	#	-	#
				X - Core			Y - Conductor Size			B - Outer Sheath			# - Fire Resistant	# - Peak Voltage
				02 : 02 cores 04 : 04 cores 06 : 06 cores ... : ... 50 : 50 cores			050 : 0.50 mm ² 075 : 0.75 mm ² 100 : 1.00 mm ² 150 : 1.50 mm ² 250 : 2.50 mm ²			V : PVC F : FR-PVC Z : LSZH			Blank : IEC 60331-21 C : BS 6387 Cat C W : BS 6387 Cat W Z : BS 6387 Cat Z 15 : PH15 30 : PH30 60 : PH60 90 : PH90 120 : PH120	Blank : 300/500V H : 600/1000V
								Z - Type Conductor						
								Blank : Class 2 S : Class 5 T : Tinned Copper						

* Other conductor sizes are available upon request: 125 (1.25mm²), 200 (2.00mm²), 14A (14AWG), 16A (16AWG), 18A (18AWG), 22A (22AWG), 24A (24AWG), ... etc.

Core Identification

02 cores: Black/ Red
> 02 cores: Color or Numbered
(Available upon request)

AWG to mm²

The conductor is metrically (mm²) or American Wire Gauge (AWG) constructed.
The AWG to mm² conversion is approximate and purely informative.

AWG	mm ²
20	0.5
18	0.75
17	1.0
16	1.5

AWG	mm ²
14	2.5
12	4
10	6
8	10