

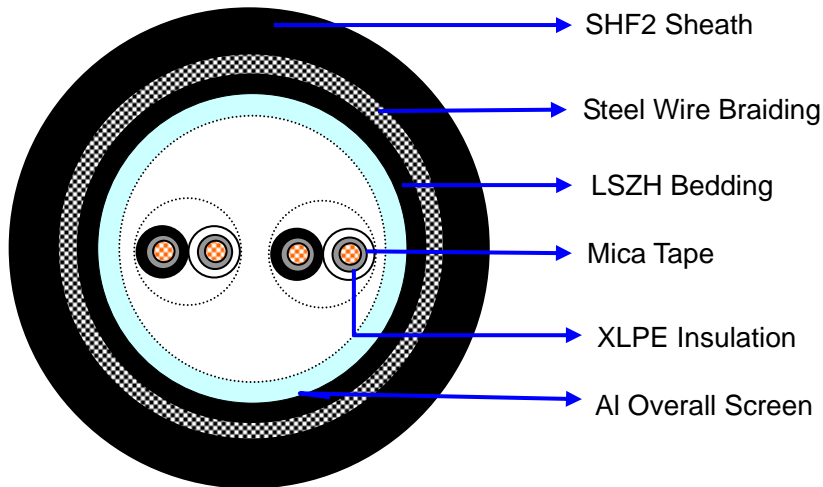


300/500V Fire Resistant Mica & XLPE Insulation SWB SHF2 Oil Resisting Cable

Application:

It is multi conductor cable which conveys low energy electrical signals used for monitoring or controlling electrical power systems and their associated processes. It conveys signals from process monitors to process analyzers (usually electronics equipment) and from the analyzers to control equipment in the electric power system. Fire Resistant cables are essential safety circuits associated with fire detection, fire alarm, emergency lighting and particularly for power supplies to building equipment used in safety systems.

Construction:



Conductor: Solid or stranded tinned copper conductor.

Insulation: Conductors are insulated with Mica tape and XLPE. Water blocking jelly compound around conductor insulation

Twisting: Two colored insulated conductors are uniformly twisted together to form a pair.

Collective screen: Aluminium/p.e.t.p. laminated tape applied with the metallic side down in electrical



contact with a 7/0.25mm tinned copper drain wire over the p.e.t.p. binder tape.

Bedding: LSZH compound.

Braiding: Steel wire braiding

Sheathing: An outer protection of extruded SHF2 compound is applied over armor.

Voltage rating: 300/500V

Flame retardant: IEC60332

Fire Resistant: IEC60331

Oil Resistant: IEC60092-359

Packing: The cables are delivered on non-returnable wood drums.

Technical Information:

| | | Unit | Conductor size | | | | |
|--|------|-------|----------------|------------|------------|-------------|------------|
| | | | 0.5mm 2 | 0.75mm 2 | 1.0mm 2 | 1.5mm 2 | 2.5mm 2 |
| | | | (16/0.2mm) | (7/0.37mm) | (7/0.43mm) | (7/0.53 mm) | (7/0.67mm) |
| Conductor resistance | max. | Ω/Km | 39.7 | 25 | 18.5 | 12.2 | 7.44 |
| Insulation resistance | max. | GΩxKm | 5 | 5 | 5 | 5 | 5 |
| Mutual capacitance at kHz | max. | pF/m | 115 | 115 | 115 | 115 | 115 |
| -One pair and two pair(Quad)cables with collective screen and all | | | 75 | 75 | 75 | 75 | 85 |



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| | | | | | | | |
|--|------|---------|---------|---------|---------|---------|---------|
| cables with individually screened pairs | | | | | | | |
| -Cables with only collective screen except one pair and two pair(Quad) | | | | | | | |
| Capacitance unbalance at 1 kHz | max. | pF/250m | 250 | 250 | 250 | 250 | 250 |
| Inductance/resistance ratio(L/R) | max. | μH/Ω | 25 | 25 | 25 | 25 | 25 |
| Test voltage(Core:core) | | V | 1000 | 1000 | 1000 | 1000 | 1000 |
| (Core:core) | | V | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated voltage | max. | v | 300/500 | 300/500 | 300/500 | 300/500 | 300/500 |

Cable Size:

| Conductor | No. of Pair | Nominal Overall Diameter (mm) | Nominal Weight (kg/km) |
|------------------|-------------|-------------------------------|------------------------|
| 1.5mm2(7/0.53mm) | 2 | 18.0 | 350 |
| 1.5mm2(7/0.53mm) | 5 | 23.0 | 737 |
| 1.5mm2(7/0.53mm) | 20 | 40.0 | 1267 |
| 2.5mm2(7/0.67mm) | 2 | 19.0 | 461 |
| 2.5mm2(7/0.67mm) | 5 | 25.0 | 890 |

The data included in the present catalogue are merely indicative; Caledonian Cables Limited reserves to itself the right to change them as its own discretion in any time.