MATERIAL SAFETY DATA SHEET

FireSense FR Cable Series
LSZH Cables

PRODUCT INFORMATION

Product Name: FireSense FR Series Fire Rated Low Smoke Zero Halogen Cable
Trade Name: FireSense FR Series AS5000.2; FireSense FR Series AS5000.1
Products Ranges: **Multicore:** FR-xx-2C(S); FR-xx-2C(S)+SWA; FR-xx-4C(S); FR-xx-6C(S); FR-xx-8C(S); FR-xx-10C;
Multicore With Earth: FR-xx-2C+E; FR-xx-3C+E(S); FR-xx-4C+E;
Single Core: FR-xxx-1C

Name of Company:

FireSense Pty Ltd
18-20 Brookhollow Ave
Norwest NSW 2153 Australia
Telephone: (02) 8850-2888 **Fax Number:** (02) 8850-2999
Date Issued: January 1st, 2022

Statement of Hazardous Nature:
Not classified as hazardous according to criteria of Worksafe Australia

Classification:
Dangerous Goods and Subsidiary Risk: None Allocated
Hazchem Code: None Allocated
Poison Schedule Number: None Allocated

Physical Description:
Red outer sheath fire rated XLPE electrical cables, single or multicore, diameter between 10mm and 90mm supplied on wooden drums.

COMPOSITION

Cable	Copper	Mica Tape	X-HF Insulation	HFS Sheath
Boiling/Melting Point	2562°C/1083°C	1400°C	125°C	125°C
Flash Point	N/A	N/A	N/A	>200°C
Flammability	N/A	Self-extinguishing	Self-extinguishing	Self-extinguishing
Solubility	N/A	N/A	N/A	N/A

Drum	Timber
Flash Point	>200°C
Solubility	Yes

MATERIAL SAFETY DATA SHEET

FireSense FR Cable Series
LSZH Cables

INGREDIENTS

Cable is comprised of fine stranded annealed copper, wrapped in Mica tape for Fire Rating, insulated in Cross Linked Polyethylene (XLPE) Halogen Free insulation material and then sheathed in Cross Linked Polyethylene (XLPE) Halogen Free Sheath. Some cables may include aluminium screen tape or copper screen braid for additional protection.

Cables are supplied on ISPM15 treated plantation pine drums.

Cable	Copper 99.9% Pure Annealed Copper	Mica Tape Mineral Mica	X-HF-110 Halogen Free Insulation Cross Linked Polyethelene (XLPE)	HFS-110-TP Halogen Free Sheath Cross Linked Polyethelene (XLPE)
% Weight	90%	1%	4%	5%

ROHS REACH 181 COMPLIANCE TEST RESULTS

Material	Result
Lead	Not Detected
Candium	Not Detected
Mercury	Not Detected
Hexavent Chromium	Not Detected
Polybrominated Biphenyls	Not Detected
Polybrominated Diphenyl Ethers	Not Detected
Halogen - Flourine	Not Detected
Halogen - Chlorine	Not Detected
Halogen - Bromine	Not Detected
Halogen - Iodine	Not Detected
Beryllium	Not Detected
Phthalates	Not Detected

NSW
(02) 8850 2888
sales@firesense.com.au

VIC
(03) 9646 4557
salesvic@firesense.com.au

QLD
(07) 3890 8842
salesqld@firesense.com.au

MATERIAL SAFETY DATA SHEET

FireSense FR Cable Series
LSZH Cables

HEALTH HAZARD INFORMATION

Acute

Adverse health effects will not arise if cable is handled and used correctly by trained and competent personnel in accordance with work safety practices and industry codes and standards.

In case of fire

Even though these cables have self-extinguishing properties the X-HF insulation and HFS sheathing materials can generate dense fumes of compounds including carbon monoxide (CO), carbon dioxide (CO2) and oxides of nitrogen (NOx). Direct exposure to these fumes will cause severe irritation to the eyes, nose, throat and lungs.

In the case of a fire, there is also the possibility that the cable could emit copper fumes when burning at high temperatures. Exposure to copper fumes may result in headache, cold sweat and weak pulse.

Timber drums would not normally be subject to rework and the possible production of wood dust. In the unlikely event of swallowing sawdust from CCA treated pine, this may result in abdominal discomfort while other forms of exposure may cause irritation to the skin, eyes, nose throat and lungs.

Chronic

Prolonged exposure to concentrated fumes emitted by X-HF and HFS will cause asphyxiation followed by death.

First Aid

Inhalation: Breathing difficulties caused by inhalation of particulate or wood dust requires the immediate removal of the patient to fresh air. Likewise, breathing difficulties caused by the inhalation of fumes emitted by burning Thermoplastic material or copper requires the immediate removal of the patient to fresh air.

Ingestion: Induce vomiting immediately as directed by medical personnel for the ingestion of particulate. Give water to drink for the ingestion of wood dust – if abdominal discomfort occurs seek medical attention.

Skin: Thoroughly wash skin cuts to remove all particulate and wood dust from the wounds. Seek medical attention for wounds that cannot be thoroughly cleaned. Treat cuts and wounds with standard first aid practices.

Eyes: Immediately flush with plenty of water for 15 minutes. Get medical attention immediately.

First Aid Facilities: Eye wash fountains and first aid kits should be available for emergency use.

HANDLING AND STORAGE

Handling: Use mechanical lifts to manoeuvre drums into position and rollers to allow ease of removal of cable.

Storage: Store in a cool, dry, well ventilated area and away from combustible materials, sources of ignition, excessive heat.

CONTACT

For further information, contact FireSense - (02) 8850 2888.