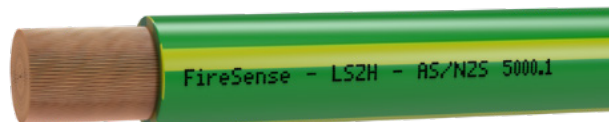


FEATURES

- ✓ PVC Free - Low Smoke Zero Halogen (LSZH)
- ✓ Green Building Code of Australia / Green Star compliant
- ✓ RCM / Global Mark certified
- ✓ -25 °C to 110 °C continuous operation
- ✓ Flame Retardant PVC Free LSZH
- ✓ X-HF-110 insulation
- ✓ 0.6 / 1kV voltage rating
- ✓ Class 6 Flexible Conductors (≥10mm)
- ✓ Easy to strip, install & terminate



PRODUCT DESCRIPTION

FireSense LSZH Earth Cables are ideal for underground applications where cable must be halogen free (PVC free). Environmentally friendly, FireSense Earth cables are made from Low Smoke Zero Halogen (LSZH) materials and have received third party PVC Free Certification from Bureau Veritas and Good Environmental Choices Australia (GECA), meeting the Green Building Council of Australia (GBCA) / Green Star requirements.

Constructed from the highest quality cross linked polymers available. Class 6 Flexible conductors (≥10mm range) make them easy to strip, install & terminate, whilst achieving the highest possible electrical performance.

TECHNICAL SPECIFICATIONS

Conductors	Stranded Annealed Copper
Insulation	Flame Retardant, Low Smoke, Zero Halogen (X-HF-110)
Voltage Rating	0.6/1kV
Operating Temperature	-25° to +110°C
Sheath Colour	Green and Yellow

STANDARDS COMPLIANCE

Conductors & Insulation	AS/NZS 1125, AS/NZS 3808, AS/NZS 1660.1, 1660.2, 1660.3, 1660.4
Cable Construction	AS/NZS 5000.1, AS/NZS 3000
Vertical Flame Spread	AS/NZS 1660.5.1 (Section 6, Category C, AS/NZS 60332-3-24)
Smoke Density	AS/NZS 1660.5.2, AS/NZS IEC 61034
Halogen Gas	AS/NZS 1660.5.3, AS/NZS IEC 60754-1
Acidity of Gases	AS/NZS 1660.5.4, AS/NZS IEC 60754-2
Vertical Flame Propagation	AS/NZS 1660.5.6, AS/NZS IEC 60332-1

CABLE LUG TERMINATION

Generally, published lug sizing is typically based on Class 2 conductors, which have a smaller overall diameter due to the lower number of copper strands. FireSense LSZH cables (>10mm²) are Class 5/6 flexible conductors, therefore it is essential to consider the overall conductor diameter when selecting the correct size lug. The differences in conductor diameter become increasingly significant for cable sizes $\geq 240\text{mm}^2$, where the number of strands increases substantially.

It is CRITICAL that “Flared, Bellmouth Lugs” are used with Class 5/6 cables. This ensures the lug has a wider mouth to accept the strands, and then they are compressed progressively during insertion. Straight lugs (without a flared mouth) should NOT be used with class 5/6 flexible cables.



FireSense recommends Pacific Components CTL Series Flared Bellmouthed lugs for FireSense Class 5/6 flexible cables. Details provided below.

Cable	Supplier	Cable Lug Description	Lug Internal Diameter in mm
LSZH-10-1CE	Pacific Components	CTL-10-XX Copper Flared Bellmouth Lug	4.7
LSZH-16-1CE	Pacific Components	CTL-16-XX Copper Flared Bellmouth Lug	5.5
LSZH-25-1CE	Pacific Components	CTL-25-XX Copper Flared Bellmouth Lug	7.1
LSZH-35-1CE	Pacific Components	CTL-35-XX Copper Flared Bellmouth Lug	8.2
LSZH-50-1CE	Pacific Components	CTL-50-XX Copper Flared Bellmouth Lug	9.5
LSZH-70-1CE	Pacific Components	CTL-70-XX Copper Flared Bellmouth Lug	11.2
LSZH-95-1CE	Pacific Components	CTL-95-XX Copper Flared Bellmouth Lug	13.5
LSZH-120-1CE	Pacific Components	CTL-120-XX Copper Flared Bellmouth Lug	15.6

ORDERING INFORMATION

Part Number	No. of Cores	Cross Section of Conductors (mm ²)	Conductor Class	Approx Overall Diameter (mm)
LSZH-2.50-1CE*	1	2.5	Class 2	3.5
LSZH-4.00-1CE*	1	4	Class 2	4.0
LSZH-6.00-1CE	1	6	Class 2	4.6
LSZH-10-1CE	1	10	Class 6	6.1
LSZH-16-1CE	1	16	Class 6	8.0
LSZH-25-1CE	1	25	Class 6	9.5
LSZH-35-1CE	1	35	Class 6	11.0
LSZH-50-1CE	1	50	Class 6	12.0
LSZH-70-1CE	1	70	Class 6	14.0
LSZH-95-1CE	1	95	Class 6	18.0
LSZH-120-1CE	1	120	Class 6	19.0

*Indent item only - lead times may apply.

APPROVALS & CERTIFICATION

Part Number	AS/NZS 5000.1	
	Certificate No.	Issuer
LSZH-2.5-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-4-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-6-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-10-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-16-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-25-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-35-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-50-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-70-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-95-1CE	GMA-511153	Global Mark Pty Ltd.
LSZH-120-1CE	GMA-511153	Global Mark Pty Ltd.

RCM Responsible Supplier	E6560	Level 3	GMA-511153
GECA Claims Authentication License Number	Fir-2021		
Bureau Veritas CoC Number	2835		