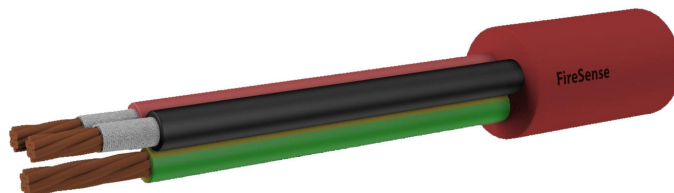


FEATURES

- ✓ 2HR Fire Rated
- ✓ 110°C conductor temp
- ✓ AS/NZS 3013 - WS52W
- ✓ AS/NZS 5000.1
- ✓ AS/CA S008
- ✓ RCM Certified
- ✓ ActivFire Certified
- ✓ Flame retardant
- ✓ Low smoke zero halogen (PVC Free)
- ✓ Third Party Accredited



PRODUCT DESCRIPTION

FireSense fire rated cables have been specifically designed for use within the Fire Alarm and Mechanical/Electrical industries. They are constructed from the highest quality cross linked polymers available and are designed to be easy to install, strip and terminate.

Our cables have been independently tested and approved by Warrington Fire to the requirements of AS/NZS 3013 for both fire and mechanical cable properties. All FireSense cables are certified 2 hour fire rated.

All FireSense fire rated series cables are made from LSZH materials and have received third party PVC Free Certification from GECA (Good Environmental Choice Australia).

They have also been tested and approved to electrical standards AS/NZS 5000.1 and communication/wiring standard AS/CA S008 by respective industry testing authorities.

FireSense Power cables are manufactured using 100% pure, annealed, copper conductors for ease of termination while achieving the highest possible electrical performance. FireSense's highly specialised insulation and outer sheath materials meet the stringent Impact and Cutting test requirements of AS/NZS 3013 yet allow for ease of stripping and cable placement on trays saving valuable time on site.

FireSense 2C+E cables have 2.5mm², 4.0mm² and 6.0mm² conductors and are ideal for powering FIP and EWIS panels, diesel pump control panels, centralised emergency lighting system or any other 240VAC essential service equipment & devices.

It is recommended that FireSense stainless steel cable ties be used for fixing cable to tray every 1.0 metre when mounted horizontally and every 0.6 metres when mounted vertically. When fixing FireSense fire rated cables to catenary wire our manufacturer's recommendation is as follows:

If cable bunch is ≥ 25 mm diameter cables should be supported with stainless steel ties every 300mm.
If cable bunch is < 25 mm diameter cables should be supported with stainless steel ties every 600mm.

ORDERING INFORMATION

| Part Number | No. of Cores | Cross Section (mm ²) (Conductors) | Cross Section (mm ²) (Earth Conductor) | Copper Wire Diameter (mm) | Approx Overall Dia (mm) | Operating Temp (°C) | AS/NZS 3013 Rating |
|--------------|--------------|---|--|---------------------------|-------------------------|---------------------|--------------------|
| FR-2.50-2C+E | 2 + E | 2.50 | 2.50 | 0.67 | 13.4 | -25 to +110 | WS52W |
| FR-4.00-2C+E | 2 + E | 4.00 | 2.50 | 0.85 | 14.9 | -25 to +110 | WS52W |
| FR-6.00-2C+E | 2 + E | 6.00 | 2.50 | 1.04 | 17.5 | -25 to +110 | WS52W |

ELECTRICAL CHARACTERISTICS

| Part Number | DC Resistance (Ω / km) | AC Resistance @ 50Hz (Ω / Km at °C) As per AS3008 Table 35 | | | | Current Carrying Capacity Unenclosed (Amps) As per AS3008 Table 15 | | |
|--------------|---------------------------|--|------|------|------|--|----------|----------|
| | | 20°C | 45°C | 75°C | 90°C | 110°C | Stranded | Touching |
| FR-2.50-2C+E | 7.05 | 8.14 | 9.01 | 9.45 | 10 | 35 | 33 | 30 |
| FR-4.00-2C+E | 4.60 | 5.06 | 5.61 | 5.88 | 6.24 | 47 | 44 | 40 |
| FR-6.00-2C+E | 2.98 | 3.38 | 3.75 | 3.93 | 4.17 | 59 | 56 | 50 |

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Conductors | Stranded Annealed Copper |
| Flame Barrier | Mica Tape |
| Insulation | Flame Retardant, Low Smoke, Zero Halogen (X-HF-110) |
| Sheath | Flame Retardant, Low Smoke, Zero Halogen (HFS-110-TP)* |
| Voltage Rating | 0.6/1kV |
| Operating Temperature | -25°C to +110°C |
| Insulation Colour | Red, Black, Green/Yellow |
| Sheath Colour | Red |
| Min Bending Radius | 10 x Cable Diameter |

* Please note: LSZH HFS-110-TP sheath material is UV stabilised but red colour may be subject to fading over time if exposed to direct sunlight.

STANDARDS COMPLIANCE

| | |
|----------------------------|---|
| Fire & Mechanical | AS/NZS 3013 Appendix A,B,D,E, AS/NZS 4507 (CI-3) |
| Cable Construction | AS/NZS 5000.1 |
| Conductors & Insulation | AS/NZS 1125, AS/NZS 3808, IEC 60228 AS/NZS 1660.1, AS/NZS 1660.2, 1660.3, 1660.4 |
| Vertical Flame Spread | AS/NZS 1660.5.1 |
| Smoke Density | AS/NZS 1660.5.2, IEC 61034 |
| Halogen Gas | AS/NZS 1660.5.3, IEC 60754 - 1&2 |
| Acidity of Gases | AS/NZS 1660.5.4 |
| Vertical Flame Propagation | AS/NZS 1660.5.6, IEC 60332-1, IEC 60332-3-24 |
| ACMA Compliance | AS/CA S008 |

APPROVALS & CERTIFICATION

| Part Number | AS/NZS 3013 | | | AS/NZS 5000.1 | |
|--------------|-------------|-----------------|-----------------|-----------------|---------------------|
| | Rating | Certificate No. | Issuer | Certificate No. | Issuer |
| FR-2.50-2C+E | WS52W | SFC26123D-R5.0 | Warrington Fire | GMA-511153 | Global Mark Pty Ltd |
| FR-4.00-2C+E | WS52W | SFC26123D-R5.0 | Warrington Fire | GMA-511153 | Global Mark Pty Ltd |
| FR-6.00-2C+E | WS52W | SFC26123D-R5.0 | Warrington Fire | GMA-511153 | Global Mark Pty Ltd |

| | | | |
|---|----------|---------|------------|
| ActivFire Listing Number | afp-2417 | | |
| RCM Responsible Supplier | E6560 | Level 3 | GMA-511153 |
| GECA Claims Authentication License Number | Fir-2021 | | |
| Bureau Veritas CoC Number | 2835 | | |

CLASSIFICATION

AS/NZS 3013 is a classification system which defines the performance of a Wiring System (WS). The classification system prefix is 'WS' followed by two numerals and a supplementary letter W. ie

AS/NZS 3013 Fire Rated Cable Technical Information

Classification of the fire and mechanical performance of wiring system elements:

AS/NZS 3013 is a classification system which defines the performance of a Wiring System (WS). The classification system prefix is 'WS' followed by two numerals and a supplementary letter W. ie.

