

PAS BS 5308 Part 1 Type 2 SIL/ICAM/LSZH/SWA/LSZH (Fire Resistant) Cable



LAND CABLES

Eland Product Group: I

APPLICATION

Publicly Available Standard (PAS) BS 5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemical industry. The signals can be of analogue, data or voice types and from a variety of transducers such as pressure, proximity or microphone. Part 1 Type 2 cables are designed where a greater degree of mechanical protection is required or where there is direct burial at a suitable depth. Suitable for fire resistant installations. Individually screened for enhanced signal security.

CHARACTERISTICS

Voltage Rating (Uo/U) 300/500V

Operating Temperature Fixed: -40°C to +80°C Flexed: 0°C to +50°C

Temperature Rating Fixed: 12 x overall diamete

CONSTRUCTION

Conductor

0.5mm² - 0.75mm²: Class 5 flexible copper conductor 1mm² and above: Class 2 stranded copper conductor

Insulation Silicone rubber ceramic type

Individual and Collective Screen AI/PET (Aluminium/Polyester Tape)

Drain Wire Tinned copper

Inner Sheath LSZH (Low Smoke Zero Halogen)

Armour SWA (Galvanised steel wires)

Sheath LSZH (Low Smoke Zero Halogen)

Sheath Colour
Red
Black

STANDARDS

BS/PAS 5308, EN 60228

Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-22/24, IEC/EN 60331-21 Halogen free according to IEC/EN 61034-1/2, IEC/EN 60754-1/2

THE CABLE LAB® AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].

**** *RoHS* **** **CE**

DIMENSIONS

| ELAND PART NO. | NO. OF PAIRS/TRIPLE | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL OVERALL DIAMETER mm |
|-----------------|------------------------|---|--------------------------------|
| IFRP1T2SI**0205 | 2P | 0.5 | 14.6 |
| IFRP1T2SI**0210 | 2P | 1 | 15.4 |
| IFRP1T2SI**0215 | 2P | 1.5 | 17.7 |
| IFRP1T2SI**0225 | 2P | 2.5 | 19.9 |
| IFRP1T2SI**0275 | 2P | 0.75 | 15.8 |
| IFRP1T2SI**0305 | 3P | 0.5 | 15.4 |
| IFRP1T2SI**0310 | 3P | 1 | 16.7 |
| IFRP1T2SI**0315 | 3P | 1.5 | 18.5 |
| IFRP1T2SI**0325 | 3P | 2.5 | 20.8 |
| IFRP1T2SI**0375 | 3P | 0.75 | 16.9 |
| IFRP1T2SI**0505 | 5P | 0.5 | 18.2 |
| IFRP1T2SI**0510 | 5P | 1 | 19.9 |
| IFRP1T2SI**0515 | 5P | 1.5 | 22.6 |
| IFRP1T2SI**0525 | 5P | 2.5 | 25.9 |
| IFRP1T2SI**0575 | 5P | 0.75 | 20.1 |
| IFRP1T2SI**1005 | 10P | 0.5 | 26 |
| IFRP1T2SI**1010 | 10P | 1 | 27.4 |
| IFRP1T2SI**1015 | 10P | 1.5 | 31 |
| IFRP1T2SI**1025 | 10P | 2.5 | 34.9 |
| IFRP1T2SI**1075 | 10P | 0.75 | 27.7 |
| IFRP1T2SI**1505 | 15P | 0.5 | 29.1 |
| IFRP1T2SI**1510 | 15P | 1 | 30.6 |
| IFRP1T2SI**1515 | 15P | 1.5 | 35.8 |
| IFRP1T2SI**1525 | 15P | 2.5 | 39.2 |
| IFRP1T2SI**1575 | 15P | 0.75 | 31 |
| IFRP1T2SI**2005 | 20P | 0.5 | 31.8 |
| IFRP1T2SI**2010 | 20P | 1 | 34.8 |
| IFRP1T2SI**2015 | 20P | 1.5 | 39.7 |
| IFRP1T2SI**2025 | 20P | 2.5 | 43.4 |
| IFRP1T2SI**2075 | 20P | 0.75 | 35.2 |
| IFRP1T2SI**3005 | 30P | 0.5 | 37.2 |
| IFRP1T2SI**3010 | 30P | 1 | 39.7 |
| IFRP1T2SI**3015 | 30P | 1.5 | 45.2 |
| IFRP1T2SI**3025 | 30P | 2.5 | 50.6 |
| IFRP1T2SI**3075 | 30P | 0.75 | 40.3 |

P = Pair

* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. IFRP1T2SIRD0205 = 0.5mm² Red

COLOUR CODES

| COLOUR | Black | Red |
|--------|-------|-----|
| CODE | ВК | RD |



CONDUCTORS

| NOMINAL CROSS SECTIONAL AREA mm ² | CONDUCTOR CLASS | MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km |
|---|-----------------|---|
| 0.5 | 5 | 39 |
| 0.75 | 5 | 26 |
| 1 | 1 | 18.1 |
| 1.5 | 2 | 12.1 |
| 2.5 | 2 | 7.41 |

ELECTRICAL CHARACTERISTICS

Individually and Collectively Screened

| NOMINAL CROSS SECTIONAL AREA mm ² | MUTUAL CAPACITANCE pF/m | | MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km | MAXIMUM L/R RATIO μH/ohms |
|--|---------------------------------|-----------------------------|--|---------------------------------|
| | Between Pairs or Adjacent Cores | Between any Core and Screen | | |
| 0.5 | 250 | 450 | >25 | 25 |
| 0.75 | 250 | 450 | >25 | 25 |
| 1 | 250 | 450 | >25 | 25 |
| 1.5 | 250 | 450 | >25 | 40 |
| 2.5 | 250 | 450 | >25 | 65 |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.