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

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.

CHARACTERISTICS

Voltage Rating (Uo/U)
300/500V

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

Minimum Bending Radius
Fixed: 12 x overall diameter

CONSTRUCTION

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

Insulation
Silicone rubber ceramic type

Screen
Al/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 BS EN/IEC 60332-1-2,
BS EN/IEC 60332-3-22/24, IEC/EN 60332-21
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®.

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm^2	NOMINAL OVERALL DIAMETER mm
IFRP1T2SC**0105	1P	0.5	10.9
IFRP1T2SC**0110	1P	1	11.3
IFRP1T2SC**0115	1P	1.5	12.3
IFRP1T2SC**0125	1P	2.5	13.3
IFRP1T2SC**0175	1P	0.75	11.4
IFRP1T2SC**1T05	1T	0.5	11.3
IFRP1T2SC**1T10	1T	1	11.7
IFRP1T2SC**1T15	1T	1.5	13
IFRP1T2SC**1T25	1T	2.5	13.8
IFRP1T2SC**1T75	1T	0.75	11.8
IFRP1T2SC**0205	2P(Q)	0.5	11.8
IFRP1T2SC**0210	2P (Q)	1	12.3
IFRP1T2SC**0215	2P (Q)	1.5	13.7
IFRP1T2SC**0225	2P (Q)	2.5	14.7
IFRP1T2SC**0275	2P (Q)	0.75	12.6
IFRP1T2SC**0505	5P	0.5	17.2
IFRP1T2SC**0510	5P	1	18.1
IFRP1T2SC**0515	5P	1.5	21.1
IFRP1T2SC**0525	5P	2.5	23.2
IFRP1T2SC**0575	5P	0.75	18.3
IFRP1T2SC**1005	10P	0.5	23.2
IFRP1T2SC**1010	10P	1	25.9
IFRP1T2SC**1015	10P	1.5	29.3
IFRP1T2SC**1025	10P	2.5	31.8
IFRP1T2SC**1075	10P	0.75	26.2
IFRP1T2SC**1505	15P	0.5	27.2
IFRP1T2SC**1510	15P	1	28.9
IFRP1T2SC**1515	15P	1.5	33.6
IFRP1T2SC**1525	15P	2.5	36.8
IFRP1T2SC**1575	15P	0.75	29.2
IFRP1T2SC**2005	20P	0.5	29.9
IFRP1T2SC**2010	20P	1	31.5
IFRP1T2SC**2015	20P	1.5	37
IFRP1T2SC**2025	20P	2.5	40.9
IFRP1T2SC**2075	20P	0.75	33

P = Pairs
Q = Quad
T = Triple

* Designates the sheath colour. For each Eland Cables part number replace with the colour code as shown below. e.g. IFRP1T2SCRD0105 = 0.5mm^2 Red

COLOUR CODES

COLOUR	Black	Red
CODE	BK	RD

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International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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

NOMINAL CROSS SECTIONAL AREA mm²	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