

BS 5308 Part 1 Type 3 - ICAM **XLPE - SWA - LSZH Instrumentation Cable**



Eland Product Group: I

APPLICATION

BS 5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemicals industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity and microphone. Part 1 Type 3 cables are generally designed where a greater degree of mechanical and chemical protection is required or direct burial at a suitable depth. For installations where fire, smoke emission and toxic fumes create a potential risk to life and equipment.

CHARACTERISTICS

Voltage Rating (Uo/U) 300/500V

Operating Temperature

CONSTRUCTION

Conductor

Class 1 solid copper conductor Class 2 stranded copper conductor Class 5 flexible copper conductor

Insulation

XLPE (Cross-Linked Polyethylene) Type 03

Binder Tape

PET (Polyester Tape)

AL/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned copper

Bedding

LSZH (Low Smoke Zero Halogen) Type LTS3

Covering

Lead or polyamide

Inner Sheath

LSZH (Low Smoke Zero Halogen) Type LTS3

Armour

Galvanized steel wires

Outer Sheath

LSZH (Low Smoke Zero Halogen) Type LTS3

Outer Sheath Colour

■ Blue ■ Black

STANDARDS

PAS 5308 Part 1 Type 3, BS EN 60228, BS 6234, BS 50363, BS EN/IEC 60332-1, BS EN/IEC 60332-3-24

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





SCIENCE BASED AMBITION FOR 1.5°C DECEMBER 1.5°C



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.









DIMENSIONS

Individually and Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm
I0205P1T3IC**	2P	0.5	20
I0210P1T3IC**	2P	1	20.8
I0215P1T3IC**	2P	1.5	22.6
I0225P1T3IC**	2P	2.5	25.3
I0275P1T3IC**	2P	0.75	20.6
I0305P1T3IC**	3P	0.5	21.9
I0310P1T3IC**	3P	1	23.1
I0315P1T3IC**	3P	1.5	25.1
I0325P1T3IC**	3P	2.5	30.1
I0375P1T3IC**	3P	0.75	23.2
I0505P1T3IC**	5P	0.5	23.1
I0510P1T3IC**	5P	1	25.3
I0515P1T3IC**	5P	1.5	28
I0525P1T3IC**	5P	2.5	40.5
I0575P1T3IC**	5P	0.75	25.1
I1005P1T3IC**	10P	0.5	30.2
I1010P1T3IC**	10P	1	32
I1015P1T3IC**	10P	1.5	37.1
I1025P1T3IC**	10P	2.5	45.1
I1075P1T3IC**	10P	0.75	31.8
I1505P1T3IC**	15P	0.5	33.5
I1510P1T3IC**	15P	1	36.9
I1515P1T3IC**	15P	1.5	41.2
I1525P1T3IC**	15P	2.5	51.3
I1575P1T3IC**	15P	0.75	36.7
I2005P1T3IC**	20P	0.5	37.8
I2010P1T3IC**	20P	1	40.3
I2015P1T3IC**	20P	1.5	45.1
I2025P1T3IC**	20P	2.5	58.6
I2075P1T3IC**	20P	0.75	40.1
I3005P1T3IC**	30P	0.5	43
I3010P1T3IC**	30P	1	45.4
I3015P1T3IC**	30P	1.5	53
I3025P1T3IC**	30P	2.5	72.2
I3075P1T3IC**	30P	0.75	45.2

P = Pairs

Colour Codes

COLOUR	Black	Blue
CODE	BK	BL

^{*}Eland Part No. shown above designate the sheath colour (*). For each colour substitute * for a colour code as listed below. e.g. I0205P1T3ICBK = 0.5mm² Black



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

Individually and Collectively Screened Cables

NOMINAL CROSS SECTIONAL AREA		MUTUAL CAPACITANCE pF/m		MAXIMUM L/R RATIO	
mm ²	Cables with Collective Screen Only	Cables with Individually Screen Pairs	mohms/km	μH/ohms	
0.5	75	115	>5	25	
0.75	75	115	>5	25	
1	75	115	>5	25	
1.5	85	120	>5	40	
2.5	85	120	>5	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.