BS 5308 Part 1 Type 3 - ICAM - PE - PVC 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.

CHARACTERISTICS

Voltage Rating (Uo/U)
300/500V

Operating Temperature
+75°C

CONSTRUCTION

Conductor
Class 1 solid copper conductor according to BS EN 60228
Class 2 stranded copper conductor according to BS EN 60228
Class 5 flexible copper conductor according to BS EN 60228

Insulation
PE (Polyethylene) Type 03 according to BS 6234

Binder Tape
PET (Polyester Tape)

Screen
AL/PET (Aluminium/Polyester Tape)

Drain Wire
Tinned copper

Bedding
PE (Polyethylene) Type 03 according to BS 6234

Covering
Lead or polyamide

Inner Sheath
PE (Polyethylene) Type 03 according to BS 6234

Armour
Galvanized steel wires

Outer Sheath
PVC (Polyvinyl Chloride) Type TM1 according to BS EN 50363

Outer Sheath Colour
Blue Black

STANDARDS

BS/PAS 5308, BS EN 60228, BS EN 6234, BS EN 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

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™.

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DIMENSIONS

Individually and Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm^2	NOMINAL OVERALL DIAMETER mm
I0205P1T3ICP**	2P	0.5	20
I0275P1T3ICP**	2P	0.75	20.6
I0210P1T3ICP**	2P	1	20.8
I0215P1T3ICP**	2P	1.5	22.6
I0225P1T3ICP**	2P	2.5	25.3
I0305P1T3ICP**	3P	0.5	21.9
I0375P1T3ICP**	3P	0.75	23.2
I0310P1T3ICP**	3P	1	23.4
I0315P1T3ICP**	3P	1.5	24.6
I0325P1T3ICP**	3P	2.5	30.1
I0505P1T3ICP**	5P	0.5	23.1
I0575P1T3ICP**	5P	0.75	25.1
I0510P1T3ICP**	5P	1	25.3
I0515P1T3ICP**	5P	1.5	28
I0525P1T3ICP**	5P	2.5	40.5
I1005P1T3ICP**	10P	0.5	30.2
I1075P1T3ICP**	10P	0.75	31.8
I1010P1T3ICP**	10P	1	32
I1015P1T3ICP**	10P	1.5	37.1
I1025P1T3ICP**	10P	2.5	45.1
I1505P1T3ICP**	15P	0.5	33.5
I1575P1T3ICP**	15P	0.75	36.7
I1510P1T3ICP**	15P	1	36.9
I1515P1T3ICP**	15P	1.5	41.2
I1525P1T3ICP**	15P	2.5	51.3
I2005P1T3ICP**	20P	0.5	37.8
I2075P1T3ICP**	20P	0.75	40.1
I2010P1T3ICP**	20P	1	40.3
I2015P1T3ICP**	20P	1.5	45.1
I2025P1T3ICP**	20P	2.5	58.6
I3005P1T3ICP**	30P	0.5	43
I3075P1T3ICP**	30P	0.75	45.2
I3010P1T3ICP**	30P	1	45.4
I3015P1T3ICP**	30P	1.5	53
I3025P1T3ICP**	30P	2.5	72.2

P = Pairs

*Eland Part No. shown above designate the sheath colour (*). For each colour substitute * for a colour code as listed below. e.g. I0205P1T3ICPBK = 0.5mm^2 Black

Colour Codes

COLOUR	Black	Blue
CODE	BK	BL

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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 mm²	MUTUAL CAPACITANCE pF/m			MINIMUM INSULATION RESISTANCE AT 20°C mohms/km	MAXIMUM L/R RATIO µH/ohms
	Cables with Collective Screen Only	1 Pair, 2 Pairs, 1 Triple Collectively Screened	Cables with Individually Screened Pairs		
0.5	75	115	115	>5	25
0.75	75	115	115	>5	25
1	75	115	115	>5	25
1.5	85	120	120	>5	40
2.5	85	120	120	>5	65

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