



XAI(i) 331 150/250V Armoured Instrumentation Cable IEC 60092-376



Eland Product Group: ASH

APPLICATION

A flexible, armoured, flame-retardant and halogen-free, individually screened, instrumentation cable designed for fixed installation, suitable for conditions on vessels of any size. For use in a wide range of temperatures, saline atmospheres and where UV radiation is present, according to the IEC60092 series.

CHARACTERISTICS

Voltage Rating U_0/U
150/250V

Maximum Operating Voltage U_{max}
300V

Temperature Range
+90°C

Minimum Bending Radius
4 x overall diameter

CONSTRUCTION

Conductor

Flexible Plain Copper

Protective Fire Barrier

Mica glass tape

Insulation

XLPE (Cross linked Polyethylene)

Individual Screen

Al/PE tape

Drain Wire

Tinned copper drain wire

Armour

Plain copper wire braid

Sheath

SHF1 compound

Core Identification

Pair: ● Black ● Light Blue

Triple: ● Black ● Light Blue ● Brown

Multi pairs/triples: Progressively numbered

Sheath Colour

● Blue ● Grey

CABLE THIRD-PARTY ACCREDITATIONS

We supply DNV approved products

Cables are tested and certified by Det Norske Veritas (Norway)

We supply Lloyds Register approved products

Cables are tested and certified by Lloyds Register (UK)

We supply ABS approved products

Cables are tested and certified by American Bureau of Shipping (USA)

STANDARDS

IEC 60092-376, IEC 60092-360

Flame Retardancy IEC 60332-1-2, IEC 60332-3-22 Cat A

Fire Resistance to IEC60331 and EN50200 Annex E

Halogen Content & Corrosivity IEC 60754-1 /2, IEC 60684-2

Smoke Density IEC 61034-1 /2

UV Resistance UL 1581 § 1200

Ozone Resistance IEC 60092-360

Cold Bend and Impact test (-40°C) CSA C 22.2 N° 0.3-09 & N° 38-18

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 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/ TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHIMFRI0275**	2P	0.75	1.1	0.6	9.6	13	190
ASHIMFRI0215**	2P	1.5	1.6	0.6	11	15	290
ASHIMFRI0275**	2T	0.75	1.1	0.6	10.7	15	270
ASHIMFRI0215**	2T	1.5	1.6	0.6	12.3	16	350
ASHIMFRI0475**	4P	0.75	1.1	0.6	11.6	16	320
ASHIMFRI0415**	4P	1.5	1.6	0.6	13.2	18	430
ASHIMFRI0475**	4T	0.75	1.1	0.6	12.9	17	390
ASHIMFRI0415**	4T	1.5	1.6	0.6	14.8	19	530
ASHIMFRI0775**	7P	0.75	1.1	0.6	14.4	19	460
ASHIMFRI0715**	7P	1.5	1.6	0.6	16.4	21	630
ASHIMFRI0775**	7T	0.75	1.1	0.6	16.8	22	590
ASHIMFRI0715**	7T	1.5	1.6	0.6	19.2	24	830
ASHIMFRI1075**	10P	0.75	1.1	0.6	18	23	630
ASHIMFRI1015**	10P	1.5	1.6	0.6	20.6	26	880
ASHIMFRI1075**	10T	0.75	1.1	0.6	21	26	810
ASHIMFRI1015**	10T	1.5	1.6	0.6	24	30	1150
ASHIMFRI1475**	14P	0.75	1.1	0.6	20.5	26	810
ASHIMFRI1415**	14P	1.5	1.6	0.6	23.4	29	1130
ASHIMFRI1475**	14T	0.75	1.1	0.6	23.6	30	1030
ASHIMFRI1415**	14T	1.5	1.6	0.6	27	33	1480
ASHIMFRI1975**	19P	0.75	1.1	0.6	23.9	30	1030
ASHIMFRI1915**	19P	1.5	1.6	0.6	27.3	34	1460
ASHIMFRI1975**	19T	0.75	1.1	0.6	27.5	34	1340
ASHIMFRI1915**	19T	1.5	1.6	0.6	31.4	39	2030
ASHIMFRI2475**	24P	0.75	1.1	0.6	26.8	33	1250
ASHIMFRI2415**	24P	1.5	1.6	0.6	30.7	38	1890
ASHIMFRI3075**	30P	0.75	1.1	0.6	30	37	1530
ASHIMFRI3015**	30P	1.5	1.6	0.6	34.3	42	2280

P = Pairs

T = Triples

Eland Part No. shown above designate the gland colour (). For each colour substitute * for a colour code as listed below. e.g. ASHIMFRI0275GR = 0.75mm² Grey

COLOUR CODES

COLOUR	Grey	Blue
CODE	GR	BL

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.



Click here for more information:

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ELAND
CABLES

ELECTRICAL CHARACTERISTICS - PAIRS

NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		REACTANCE Ω/km		MAX. CAPACITANCE μF/Km	NOMINAL INDUCTANCE μH/Km	IMPEDANCE @ 50 & 60 HZ Ω/km		MAX. L/R RATIO @ 1KHZ μH/ Ω
	20°C	90°C	50 HZ	60 HZ			20°C	90°C	
0.75	26.0	33.2	0.104	0.124	0.080	330	26.0	33.2	12.7
1.5	12.8	16.3	0.094	0.113	0.090	300	12.8	16.3	23.4

ELECTRICAL CHARACTERISTICS - TRIPLES

NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		REACTANCE Ω/km		MAX. CAPACITANCE μF/Km	NOMINAL INDUCTANCE μH/Km	IMPEDANCE @ 50 & 60 HZ Ω/km		MAX. L/R RATIO @ 1KHZ μH/ Ω
	20°C	90°C	50 HZ	60 HZ			20°C	90°C	
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