

XAI 3.6/6kV Armoured Cable IEC 60092-354



Eland Product Group: ASH

APPLICATION

A flame-retardant and halogen-free medium voltage 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

3.6/6kV

Maximum Operating Voltage U_{max}

7.2kV

Temperature Rating

+90°C

Minimum Bending Radius

4 or 5x diameter depending on overall diameter

CONSTRUCTION

Conductor

Flexible Copper

Conductor Screen

HF (Halogen Free) extruded compound

Insulation

HEPR HF (Hard Ethylene Propylene Rubber Halogen Free) Compound

Insulation Screen

HF (Halogen Free) extruded compound

Core Screen

Plain copper tape

Bedding

Fiberglass Tape + Fiberglass Ropes (+ HEPR layer for multicore)

Inner Sheath

SHF1 compound

Armour

Plain copper wire braid

Outer Sheath

SHF1 compound

Core Identification

1 core: ○ Off White

3 core: ○ Off White (coloured or numbered tapes)

Outer Sheath Colour

● Red

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 60092-354, IEC 60092-360

Flame Retardant: IEC 60332-1-2, IEC 60332-3-22 Cat A

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

Impact & Cold Resistance: CSA C 22.2 N° 0.3-09 & N° 38-18

Temperature Range: IEC 60092-360

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE 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
TARGETS

BUSINESS
AMBIITION FOR 1.5°C



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 CORES	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
ASHIM6KV0125	1	25	6.5	2.5	17.5	23	890
ASHIM6KV0135	1	35	7.5	2.5	18.5	24	1020
ASHIM6KV0150	1	50	8.4	2.5	19.4	25	1160
ASHIM6KV0170	1	70	10.0	2.5	22.0	27	1500
ASHIM6KV0195	1	95	11.8	2.5	23.5	29	1850
ASHIM6KV01120	1	120	13.2	2.5	25.5	31	2130
ASHIM6KV01150	1	150	14.6	2.5	26.5	32	2450
ASHIM6KV01185	1	185	16.5	2.5	28.5	35	2900
ASHIM6KV01240	1	240	19.0	2.6	31.5	38	3670
ASHIM6KV01300	1	300	21.8	2.8	34.9	41	4370
ASHIM6KV0325	3	25	6.5	2.5	36.5	43	2840
ASHIM6KV0335	3	35	7.5	2.5	38.9	45	3240
ASHIM6KV0350	3	50	8.4	2.5	40.5	48	3850
ASHIM6KV0370	3	70	10.0	2.5	44.3	52	4780
ASHIM6KV0395	3	95	11.8	2.5	48.2	56	5800
ASHIM6KV03120	3	120	13.2	2.5	51.2	59	6730
ASHIM6KV03150	3	150	14.6	2.5	54.2	62	7840
ASHIM6KV03185	3	185	16.5	2.5	58.4	67	9180
ASHIM6KV03240	3	240	19.0	2.6	65.2	74	11780

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE μF/km	NOMINAL INDUCTANCE μH/km	IMPEDANCE Ω/km				MAXIMUM CURRENT IN FREE AIR Amps	SHORT CIRCUIT FOR 1S @ 90°C/250°C KA
		20°C	90°C	50 HZ	60 HZ			20°C 50 HZ	20°C 60 HZ	90°C 50 HZ	90°C 60 HZ		
1	25	0.727	0.927	0.123	0.148	0.289	391	0.74	0.74	0.94	0.95	117	3.58
1	35	0.524	0.668	0.117	0.140	0.317	371	0.54	0.54	0.68	0.68	145	5.01
1	50	0.387	0.494	0.113	0.135	0.343	359	0.40	0.41	0.51	0.51	179	7.15
1	70	0.268	0.342	0.106	0.127	0.388	337	0.29	0.30	0.36	0.36	231	10.0
1	95	0.193	0.246	0.100	0.120	0.438	318	0.22	0.23	0.27	0.27	283	13.6
1	120	0.153	0.195	0.097	0.117	0.477	309	0.18	0.19	0.22	0.23	331	17.2
1	150	0.124	0.158	0.093	0.111	0.516	296	0.15	0.17	0.18	0.19	384	21.5
1	185	0.0991	0.1264	0.091	0.109	0.569	289	0.13	0.15	0.16	0.17	441	26.5
1	240	0.0754	0.0962	0.087	0.105	0.617	277	0.12	0.13	0.13	0.14	524	34.3
1	300	0.0601	0.0767	0.083	0.100	0.647	265	0.10	0.12	0.11	0.13	608	42.9
3	25	0.727	0.927	0.111	0.134	0.289	355	0.74	0.74	0.93	0.94	105	3.58
3	35	0.524	0.668	0.106	0.128	0.317	339	0.53	0.54	0.68	0.68	130	5.01
3	50	0.387	0.494	0.103	0.124	0.343	328	0.40	0.41	0.50	0.51	159	7.15
3	70	0.268	0.342	0.098	0.117	0.388	311	0.29	0.29	0.36	0.36	203	10.0
3	95	0.193	0.246	0.093	0.112	0.438	296	0.21	0.22	0.26	0.27	246	13.6
3	120	0.153	0.195	0.090	0.108	0.477	287	0.18	0.19	0.21	0.22	286	17.2
3	150	0.124	0.158	0.088	0.105	0.516	280	0.15	0.16	0.18	0.19	330	21.5
3	185	0.0991	0.1264	0.085	0.102	0.569	271	0.13	0.14	0.15	0.16	377	26.5
3	240	0.0754	0.0962	0.083	0.099	0.617	263	0.11	0.12	0.13	0.14	445	34.3

Maximum current rate based on 90°C conductor temperature and 45°C ambient temperature IEC 60092-352

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.