

XAI 6/10kV 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

6/10kV

Maximum Operating Voltage U_{max}

12kV

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
ASHIM10KV0125	1	25	6.5	3.4	19.3	24	1000
ASHIM10KV0135	1	35	7.5	3.4	21.4	27	1200
ASHIM10KV0150	1	50	8.4	3.4	22.2	27	1360
ASHIM10KV0170	1	70	10.0	3.4	23.6	29	1610
ASHIM10KV0195	1	95	11.8	3.4	25.3	31	1950
ASHIM10KV01120	1	120	13.2	3.4	27.2	33	2270
ASHIM10KV01150	1	150	14.6	3.4	28.3	34	2600
ASHIM10KV01185	1	185	16.5	3.4	30.3	37	3130
ASHIM10KV01240	1	240	19.0	3.4	33.3	40	3850
ASHIM10KV01300	1	300	21.8	3.4	36.1	43	4500
ASHIM10KV0325	3	25	6.5	3.4	40.2	47	3300
ASHIM10KV0335	3	35	7.5	3.4	42.5	50	3780
ASHIM10KV0350	3	50	8.4	3.4	44.4	52	4300
ASHIM10KV0370	3	70	10.0	3.4	48.2	56	5200
ASHIM10KV0395	3	95	11.8	3.4	51.8	60	6300
ASHIM10KV03120	3	120	13.2	3.4	55.1	63	7250
ASHIM10KV03150	3	150	14.6	3.4	58.1	67	8250
ASHIM10KV03185	3	185	16.5	3.4	63.2	72	9960
ASHIM10KV03240	3	240	19.0	3.4	68.0	78	12270

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	0.126	0.151	0.228	400	0.74	0.74	0.94	0.94	117	3.58
1	35	0.524	0.668	0.124	0.149	0.249	395	0.54	0.54	0.68	0.68	145	5.01
1	50	0.387	0.494	0.118	0.141	0.268	375	0.40	0.41	0.51	0.51	179	7.15
1	70	0.268	0.342	0.110	0.133	0.301	352	0.29	0.30	0.36	0.37	231	10.0
1	95	0.193	0.246	0.104	0.125	0.338	332	0.22	0.23	0.27	0.28	283	13.6
1	120	0.153	0.195	0.101	0.121	0.367	322	0.18	0.20	0.22	0.23	331	17.2
1	150	0.124	0.158	0.097	0.116	0.396	308	0.16	0.17	0.19	0.20	384	21.5
1	185	0.0991	0.1264	0.094	0.113	0.435	300	0.14	0.15	0.16	0.17	441	26.5
1	240	0.0754	0.0962	0.090	0.108	0.487	288	0.12	0.13	0.13	0.14	524	34.3
1	300	0.0601	0.0767	0.086	0.103	0.544	274	0.11	0.12	0.12	0.13	608	42.9
3	25	0.727	0.927	0.119	0.142	0.228	377	0.74	0.74	0.93	0.94	105	3.58
3	35	0.524	0.668	0.113	0.136	0.249	360	0.54	0.54	0.68	0.68	130	5.01
3	50	0.387	0.494	0.110	0.132	0.268	349	0.40	0.41	0.51	0.51	159	7.15
3	70	0.268	0.342	0.103	0.124	0.301	329	0.29	0.30	0.36	0.36	203	10.0
3	95	0.193	0.246	0.098	0.118	0.338	313	0.22	0.23	0.27	0.27	246	13.6
3	120	0.153	0.195	0.095	0.114	0.367	303	0.18	0.19	0.22	0.23	286	17.2
3	150	0.124	0.158	0.093	0.111	0.396	295	0.15	0.17	0.18	0.19	330	21.5
3	185	0.0991	0.1264	0.090	0.107	0.435	285	0.13	0.15	0.15	0.17	377	26.5
3	240	0.0754	0.0962	0.086	0.104	0.487	275	0.11	0.13	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.