

XAI 8.7/15kV 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

8.7/15kV

Maximum Operating Voltage U_{max}

17.5kV

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
ASHIM15KV0125	1	25	6.5	4.5	22.6	28	1200
ASHIM15KV0135	1	35	7.5	4.5	23.6	29	1360
ASHIM15KV0150	1	50	8.4	4.5	24.0	30	1520
ASHIM15KV0170	1	70	10.0	4.5	25.8	31	1800
ASHIM15KV0195	1	95	11.8	4.5	27.9	34	2170
ASHIM15KV01120	1	120	13.2	4.5	29.2	35	2450
ASHIM15KV01150	1	150	14.6	4.5	30.5	37	2860
ASHIM15KV01185	1	185	16.5	4.5	32.9	39	3420
ASHIM15KV01240	1	240	19.0	4.5	35.3	42	4070
ASHIM15KV01300	1	300	21.8	4.5	39.0	46	4820
ASHIM15KV0325	3	25	6.5	4.5	45.4	53	3900
ASHIM15KV0335	3	35	7.5	4.5	47.5	55	4350
ASHIM15KV0350	3	50	8.4	4.5	49.1	57	4900
ASHIM15KV0370	3	70	10.0	4.5	52.9	61	5850
ASHIM15KV0395	3	95	11.8	4.5	56.6	65	6950
ASHIM15KV03120	3	120	13.2	4.5	60.4	69	8100
ASHIM15KV03150	3	150	14.6	4.5	63.3	73	9300
ASHIM15KV03185	3	185	16.5	4.5	67.5	77	10900

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	0.135	0.162	0.186	431	0.74	0.74	0.94	0.94	117	3.58
1	35	0.524	0.668	0.129	0.154	0.202	409	0.54	0.55	0.68	0.69	145	5.01
1	50	0.387	0.494	0.124	0.149	0.216	396	0.41	0.41	0.51	0.52	179	7.15
1	70	0.268	0.342	0.115	0.138	0.242	365	0.29	0.30	0.36	0.37	231	10.0
1	95	0.193	0.246	0.110	0.132	0.270	350	0.22	0.23	0.27	0.28	283	13.6
1	120	0.153	0.195	0.105	0.126	0.292	334	0.19	0.20	0.22	0.23	331	17.2
1	150	0.124	0.158	0.102	0.122	0.314	325	0.16	0.17	0.19	0.20	384	21.5
1	185	0.0991	0.1264	0.098	0.117	0.344	311	0.14	0.15	0.16	0.17	441	26.5
1	240	0.0754	0.0962	0.093	0.112	0.383	297	0.12	0.14	0.13	0.15	524	34.3
1	300	0.0601	0.0767	0.090	0.109	0.427	288	0.11	0.12	0.12	0.13	608	42.9
3	25	0.727	0.927	0.126	0.152	0.186	402	0.74	0.74	0.94	0.94	105	3.58
3	35	0.524	0.668	0.121	0.145	0.202	384	0.54	0.54	0.68	0.68	130	5.01
3	50	0.387	0.494	0.117	0.140	0.216	371	0.40	0.41	0.51	0.51	159	7.15
3	70	0.268	0.342	0.110	0.132	0.242	350	0.29	0.30	0.36	0.37	203	10.0
3	95	0.193	0.246	0.104	0.125	0.270	332	0.22	0.23	0.27	0.28	246	13.6
3	120	0.153	0.195	0.101	0.121	0.292	321	0.18	0.20	0.22	0.23	286	17.2
3	150	0.124	0.158	0.098	0.117	0.314	312	0.16	0.17	0.19	0.20	330	21.5
3	185	0.0991	0.1264	0.094	0.113	0.344	301	0.14	0.15	0.16	0.17	377	26.5

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.