

XAI 18/30kV 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

18/30kV

Maximum Operating Voltage U_{max}

36kV

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 multicores)

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
ASHIM30KV0150	1	50	8.4	8.0	31.4	38	2210
ASHIM30KV0170	1	70	10.0	8.0	33.6	40	2580
ASHIM30KV0195	1	95	11.8	8.0	35.3	42	2950
ASHIM30KV01120	1	120	13.2	8.0	36.6	43	3280
ASHIM30KV01150	1	150	14.6	8.0	38.2	45	3630
ASHIM30KV01185	1	185	16.5	8.0	40.5	48	4230
ASHIM30KV01240	1	240	19.0	8.0	43.2	50	4990
ASHIM30KV01300	1	300	21.8	8.0	45.9	53	5680
ASHIM30KV0350	3	50	8.4	8.0	65.3	74	7050
ASHIM30KV0370	3	70	10.0	8.0	69.0	78	8030
ASHIM30KV0395	3	95	11.8	8.0	72.7	82	9330
ASHIM30KV03120	3	120	13.2	8.0	75.5	85	10400
ASHIM30KV03150	3	150	14.6	8.0	79.0	89	11690

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	50	0.387	0.494	0.139	0.167	0.145	443	0.41	0.42	0.51	0.52	179	7.15
1	70	0.268	0.342	0.131	0.157	0.160	416	0.30	0.31	0.37	0.38	231	10.0
1	95	0.193	0.246	0.123	0.148	0.177	393	0.23	0.24	0.28	0.29	283	13.6
1	120	0.153	0.195	0.118	0.141	0.190	375	0.19	0.21	0.23	0.24	331	17.2
1	150	0.124	0.158	0.114	0.137	0.202	364	0.17	0.18	0.20	0.21	384	21.5
1	185	0.0991	0.1264	0.111	0.133	0.219	352	0.15	0.17	0.17	0.18	441	26.5
1	240	0.0754	0.0962	0.104	0.125	0.242	332	0.13	0.15	0.14	0.16	524	34.3
1	300	0.0601	0.0767	0.099	0.119	0.267	316	0.12	0.13	0.13	0.14	608	42.9
3	50	0.387	0.494	0.135	0.162	0.145	430	0.41	0.42	0.51	0.52	159	7.15
3	70	0.268	0.342	0.127	0.152	0.160	404	0.30	0.31	0.36	0.37	203	10.0
3	95	0.193	0.246	0.120	0.144	0.177	383	0.23	0.24	0.27	0.29	246	13.6
3	120	0.153	0.195	0.116	0.139	0.190	369	0.19	0.21	0.23	0.24	286	17.2
3	150	0.124	0.158	0.112	0.135	0.202	358	0.17	0.18	0.19	0.21	330	21.5

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.