

XAI 0.6/1kV Armoured Cable IEC 60092-353



Eland Product Group: ASH

APPLICATION

A flexible, armoured, flame-retardant and halogen-free power 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
0.6/1kV

Maximum Operating Voltage U_{max}
1.2kV

Temperature Range
+90°C

Minimum Bending Radius
4 x overall diameter

CONSTRUCTION

Conductor
Flexible Plain Copper

Insulation
XLPE (Cross linked Polyethylene)

Bedding
Fibreglass tape + Fibreglass rope (+ XLPE layer for multicores)

Armour
Plain copper wire braid

Sheath
SHF1 compound

Core Identification
1 core: ○ White or ● Black
2 cores: ● Blue, ● Brown
3 cores: ● Brown, ● Black, ● Grey
4 cores: ● Blue, ● Brown, ● Black, ● Grey
5 core: ● Blue, ● Brown, ● Black, ● Grey, ● Green/Yellow
Multicores: ○ White numbered
Earth: ● Green/Yellow

Sheath Colour
● Black

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 60092-353, IEC 60092-360
Flame Retardancy 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
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 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
ASHIM0110	1	10	4.1	0.7	5.7	9	190
ASHIM0116	1	16	5.2	0.7	6.7	10	260
ASHIM0125	1	25	6.5	0.9	8.5	12	380
ASHIM0135	1	35	7.5	0.9	9.5	13	480
ASHIM0150	1	50	8.3	1.0	11.2	15	720
ASHIM0170	1	70	10.0	1.1	13.7	18	950
ASHIM0195	1	95	11.8	1.1	15.2	20	1220
ASHIM01120	1	120	13.2	1.2	17.2	22	1530
ASHIM01150	1	150	14.6	1.4	19	24	1810
ASHIM01185	1	185	16.5	1.6	21	26	2250
ASHIM01240	1	240	19.0	1.7	24.2	29	2940
ASHIM01300	1	300	21.8	1.8	26.1	31	3580
ASHIM02015	2	1.5	1.6	0.7	6.1	9	140
ASHIM02025	2	2.5	2.0	0.7	6.9	10	180
ASHIM02040	2	4	2.6	0.7	8.1	12	230
ASHIM02060	2	6	3.2	0.7	9.2	13	300
ASHIM0210	2	10	4.1	0.7	11.4	15	440
ASHIM0216	2	16	5.2	0.7	13.3	18	590
ASHIM03015	3	1.5	1.6	0.7	6.6	10	160
ASHIM03025	3	2.5	2.0	0.7	7.5	11	200
ASHIM03040	3	4	2.6	0.7	8.8	12	270
ASHIM03060	3	6	3.2	0.7	10	13	360
ASHIM0310	3	10	4.1	0.7	12.3	17	570
ASHIM0316	3	16	5.2	0.7	14.3	19	780
ASHIM0325	3	25	6.5	0.9	18.3	23	1170
ASHIM0335	3	35	7.5	0.9	20.8	26	1520
ASHIM0350	3	50	8.3	1.0	23.5	29	2120
ASHIM0370	3	70	10.0	1.1	28.8	34	2840
ASHIM0395	3	95	11.8	1.1	32.4	39	3790
ASHIM03120	3	120	13.2	1.2	36.6	43	4800
ASHIM03150	3	150	14.6	1.4	43.4	51	5730
ASHIM03185	3	185	16.5	1.6	44.8	52	7130
ASHIM03240	3	240	19.0	1.7	51.5	59	9310
ASHIM03300	3	300	21.8	1.8	55.8	64	11380
ASHIM04015	4	1.5	1.6	0.7	7.4	11	180
ASHIM04025	4	2.5	2.0	0.7	8.3	12	240
ASHIM04040	4	4	2.6	0.7	9.8	13	320
ASHIM04060	4	6	3.2	0.7	11.2	15	490
ASHIM0410	4	10	4.1	0.7	13.6	18	680
ASHIM0416	4	16	5.2	0.7	16	20	960
ASHIM0425	4	25	6.5	0.9	20.3	25	1450
ASHIM0435	4	35	7.5	0.9	23.2	28	1920
ASHIM0450	4	50	8.3	1.0	26.2	31	2700
ASHIM0470	4	70	10.0	1.1	32.2	39	3650
ASHIM0495	4	95	11.8	1.1	35.8	42	4760

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ELAND
CABLES

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
ASHIM04120	4	120	13.2	1.2	40.8	48	6050
ASHIM04150	4	150	14.6	1.4	45	52	7230
ASHIM04185	4	185	16.5	1.6	49.9	58	9080
ASHIM04240	4	240	19.0	1.7	57.3	66	11890
ASHIM04300	4	300	21.8	1.8	63.4	71	14580
ASHIM05015	5	1.5	1.6	0.7	8.2	12	210
ASHIM05025	5	2.5	2.0	0.7	9.3	13	280
ASHIM07015	7	1.5	1.6	0.7	9.1	13	260
ASHIM07025	7	2.5	2.0	0.7	10.4	15	390
ASHIM12015	12	1.5	1.6	0.7	12.7	17	460
ASHIM12025	12	2.5	2.0	0.7	14.4	19	600
ASHIM19015	19	1.5	1.6	0.7	15.2	20	640
ASHIM19025	19	2.5	2.0	0.7	17.3	22	870
ASHIM27015	27	1.5	1.6	0.7	18.5	23	860
ASHIM27025	27	2.5	2.0	0.7	21.2	26	1190
ASHIM37015	37	1.5	1.6	0.7	21.2	26	1110
ASHIM37025	37	2.5	2.0	0.7	24.1	29	1540

ELECTRICAL CHARACTERISTICS - SINGLE CORE

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	10	1.83	2.334	0.105	0.126	0.201	334	1.83	1.83	2.34	2.34	69	1.43
1	16	1.15	1.467	0.097	0.116	0.253	309	1.15	1.16	1.47	1.47	92	2.29
1	25	0.727	0.927	0.095	0.114	0.292	303	0.73	0.74	0.93	0.93	123	3.58
1	35	0.524	0.668	0.095	0.114	0.325	302	0.53	0.53	0.67	0.68	153	5.01
1	50	0.387	0.494	0.093	0.111	0.355	295	0.40	0.40	0.50	0.51	188	7.15
1	70	0.268	0.342	0.092	0.110	0.393	292	0.28	0.29	0.35	0.36	243	10.0
1	95	0.193	0.246	0.087	0.105	0.451	278	0.21	0.22	0.26	0.27	298	13.6
1	120	0.153	0.195	0.088	0.106	0.487	281	0.18	0.18	0.21	0.22	348	17.2
1	150	0.124	0.158	0.087	0.104	0.526	277	0.15	0.16	0.18	0.19	404	21.5
1	185	0.0991	0.1264	0.086	0.103	0.577	273	0.13	0.14	0.15	0.16	464	26.5
1	240	0.754	0.0962	0.084	0.100	0.644	266	0.11	0.12	0.13	0.14	552	34.3
1	300	0.601	0.0767	0.081	0.097	0.722	257	0.10	0.11	0.11	0.12	640	42.9

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ELECTRICAL CHARACTERISTICS - 2 CORE

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		
2	1.5	12.1	15.4	0.099	0.119	0.141	314	12.1	12.1	15.4	15.4	23	0.21
2	2.5	7.41	9.45	0.093	0.111	0.157	295	7.41	7.41	9.45	9.45	31	0.36
2	4	4.61	5.88	0.086	0.104	0.178	275	4.61	4.61	5.88	5.88	43	0.57
2	6	3.08	3.93	0.082	0.098	0.196	261	3.08	3.08	3.93	3.93	55	0.86
2	10	1.83	2.33	0.078	0.093	0.219	247	1.83	1.83	2.34	2.34	75	1.43
2	16	1.15	1.47	0.074	0.089	0.241	236	1.15	1.15	1.47	1.47	100	2.29

ELECTRICAL CHARACTERISTICS - 3 CORE

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		
3	1.5	12.1	15.4	0.099	0.119	0.141	314	12.1	12.1	15.4	15.4	20	0.21
3	2.5	7.41	9.45	0.093	0.111	0.157	295	7.41	7.41	9.45	9.45	28	0.36
3	4	4.61	5.88	0.086	0.104	0.178	275	4.61	4.61	5.88	5.88	37	0.57
3	6	3.08	3.93	0.082	0.098	0.196	261	3.08	3.08	3.93	3.93	47	0.86
3	10	1.83	2.33	0.078	0.093	0.219	247	1.83	1.83	2.34	2.34	65	1.43
3	16	1.15	1.47	0.074	0.089	0.241	236	1.15	1.15	1.47	1.47	87	2.29
3	25	0.727	0.927	0.056	0.067	0.238	238	0.73	0.73	0.93	0.93	110	3.58
3	35	0.524	0.668	0.081	0.097	0.251	232	0.53	0.53	0.67	0.67	137	5.01
3	50	0.387	0.494	0.079	0.095	0.254	230	0.40	0.41	0.50	0.50	167	7.15
3	70	0.268	0.342	0.077	0.093	0.259	228	0.28	0.28	0.35	0.35	214	10.0
3	95	0.193	0.246	0.075	0.090	0.274	223	0.21	0.21	0.26	0.26	259	13.6
3	120	0.153	0.195	0.074	0.088	0.276	222	0.17	0.17	0.21	0.21	301	17.2
3	150	0.124	0.158	0.073	0.088	0.271	224	0.14	0.15	0.17	0.18	347	21.5
3	185	0.0991	0.1264	0.073	0.088	0.270	224	0.12	0.13	0.14	0.15	397	26.5
3	240	0.0754	0.0962	0.072	0.087	0.278	222	0.10	0.11	0.12	0.13	468	34.3
3	300	0.0601	0.0767	0.072	0.086	0.285	219	0.09	0.10	0.10	0.11	540	42.9

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ELECTRICAL CHARACTERISTICS - 4 CORE

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		
4	1.5	12.1	15.4	0.106	0.127	0.130	337	12.1	12.1	15.4	15.4	20	0.21
4	2.5	7.41	9.45	0.100	0.120	0.143	317	7.41	7.41	9.45	9.45	28	0.36
4	4	4.61	5.88	0.093	0.112	0.160	297	4.61	4.61	5.88	5.88	37	0.57
4	6	3.08	3.93	0.089	0.107	0.175	284	3.08	3.08	3.93	3.93	47	0.86
4	10	1.83	2.33	0.085	0.102	0.192	270	1.83	1.83	2.34	2.34	65	1.43
4	16	1.15	1.47	0.081	0.098	0.209	259	1.15	1.15	1.47	1.47	87	2.29
4	25	0.727	0.927	0.082	0.098	0.207	260	0.73	0.73	0.93	0.93	110	3.58
4	35	0.524	0.668	0.080	0.096	0.217	254	0.53	0.53	0.67	0.67	137	5.01
4	50	0.387	0.494	0.080	0.095	0.219	253	0.40	0.40	0.50	0.50	167	7.15
4	70	0.268	0.342	0.079	0.095	0.223	251	0.28	0.28	0.35	0.35	214	10.0
4	95	0.193	0.246	0.077	0.093	0.234	245	0.21	0.21	0.26	0.26	259	13.6
4	120	0.153	0.195	0.077	0.092	0.236	245	0.17	0.18	0.21	0.21	301	17.2
4	150	0.124	0.158	0.077	0.093	0.232	246	0.15	0.15	0.18	0.18	347	21.5
4	185	0.0991	0.1264	0.078	0.093	0.231	247	0.13	0.14	0.15	0.15	397	26.5
4	240	0.0754	0.0962	0.077	0.092	0.237	244	0.11	0.12	0.12	0.12	468	34.3
4	300	0.0601	0.0767	0.076	0.091	0.242	242	0.10	0.11	0.11	0.11	540	42.9

ELECTRICAL CHARACTERISTICS - MULTICORE

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		
5	1.5	12.1	15.4	0.109	0.130	0.121	346	12.1	12.1	15.4	15.4	12	0.21
7	1.5	12.1	15.4	0.142	0.171	0.081	453	12.1	12.1	15.4	15.4	11	0.21
12	1.5	12.1	15.4	0.171	0.205	0.069	544	12.1	12.1	15.4	15.4	9	0.21
19	1.5	12.1	15.4	0.186	0.223	0.059	592	12.1	12.1	15.4	15.4	8	0.21
27	1.5	12.1	15.4	0.202	0.242	0.058	642	12.1	12.1	15.4	15.4	7	0.21
37	1.5	12.1	15.4	0.211	0.254	0.056	673	12.1	12.1	15.4	15.4	6	0.21
5	2.5	7.41	9.45	0.102	0.123	0.133	326	7.41	7.41	9.45	9.45	17	0.36
7	2.5	7.41	9.45	0.136	0.163	0.087	433	7.41	7.41	9.45	9.45	15	0.36
12	2.5	7.41	9.45	0.165	0.198	0.078	525	7.41	7.41	9.45	9.45	12	0.36
19	2.5	7.41	9.45	0.180	0.216	0.063	572	7.41	7.41	9.45	9.45	11	0.36
27	3.5	7.41	9.45	0.196	0.235	0.061	623	7.41	7.41	9.45	9.45	10	0.36
37	2.5	7.41	9.45	0.205	0.246	0.059	653	7.41	7.41	9.45	9.45	9	0.36

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