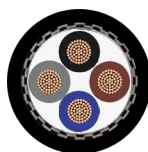




XAI 331 0.6/1kV Armoured Cable IEC 60092-353



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

Protective Fire Barrier

Mica glass tape

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

5core: ● 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

Fire Resistance to IEC60331 and EN50200 Annex E

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



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
ASHIMFR0110	1	10	4.1	0.7	5.9	9	200
ASHIMFR0116	1	16	5.2	0.7	6.9	10	270
ASHIMFR0125	1	25	6.5	0.9	8.8	12	400
ASHIMFR0135	1	35	7.5	0.9	10	13	500
ASHIMFR0150	1	50	8.3	1.0	11.8	16	750
ASHIMFR0170	1	70	10.0	1.1	13.9	18	970
ASHIMFR0195	1	95	11.8	1.1	15.5	20	1250
ASHIMFR01120	1	120	13.2	1.2	17.5	22	1560
ASHIMFR01150	1	150	14.6	1.4	19.3	24	1830
ASHIMFR01185	1	185	16.5	1.6	21.6	27	2280
ASHIMFR01240	1	240	19.0	1.7	24.2	29	2970
ASHIMFR01300	1	300	21.8	1.8	26.4	32	3620
ASHIMFR02015	2	1.5	1.6	0.7	6.9	10	160
ASHIMFR02025	2	2.5	2.0	0.7	7.6	11	200
ASHIMFR02040	2	4	2.6	0.7	8.6	12	250
ASHIMFR02060	2	6	3.2	0.7	9.7	13	390
ASHIMFR0210	2	10	4.1	0.7	11.8	16	460
ASHIMFR0216	2	16	5.2	0.7	13.8	18	620
ASHIMFR03015	3	1.5	1.6	0.7	7.5	11	170
ASHIMFR03025	3	2.5	2.0	0.7	8.2	12	230
ASHIMFR03040	3	4	2.6	0.7	9.3	13	290
ASHIMFR03060	3	6	3.2	0.7	10.6	15	460
ASHIMFR0310	3	10	4.1	0.7	12.8	17	590
ASHIMFR0316	3	16	5.2	0.7	14.9	19	830
ASHIMFR0325	3	25	6.5	0.9	18.9	24	1200
ASHIMFR0335	3	35	7.5	0.9	21.8	27	1560
ASHIMFR0350	3	50	8.3	1.0	24.9	30	2180
ASHIMFR0370	3	70	10.0	1.1	29.4	35	2890
ASHIMFR0395	3	95	11.8	1.1	32.8	39	3850
ASHIMFR03120	3	120	13.2	1.2	37.2	44	4860
ASHIMFR03150	3	150	14.6	1.4	41	48	5800
ASHIMFR03185	3	185	16.5	1.6	46.1	54	7210
ASHIMFR03240	3	240	19.0	1.7	51.6	60	9470
ASHIMFR03300	3	300	21.8	1.8	56.4	65	11470
ASHIMFR04015	4	1.5	1.6	0.7	8.3	12	210
ASHIMFR04025	4	2.5	2.0	0.7	9.2	13	270
ASHIMFR04040	4	4	2.6	0.7	10.4	15	390
ASHIMFR04060	4	6	3.2	0.7	11.8	16	550
ASHIMFR0410	4	10	4.1	0.7	14.2	19	720
ASHIMFR0416	4	16	5.2	0.7	16.6	21	1010
ASHIMFR0425	4	25	6.5	0.9	21	26	1500
ASHIMFR0435	4	35	7.5	0.9	24.3	29	1980
ASHIMFR0450	4	50	8.3	1.0	27.7	33	2760
ASHIMFR0470	4	70	10.0	1.1	32.8	39	3760
ASHIMFR0495	4	95	11.8	1.1	36.6	43	4860

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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
ASHIMFR04120	4	120	13.2	1.2	41.4	48	6140
ASHIMFR04150	4	150	14.6	1.4	45.7	53	7320
ASHIMFR04185	4	185	16.5	1.6	51.4	59	9180
ASHIMFR04240	4	240	19.0	1.7	57.5	66	12000
ASHIMFR04300	4	300	21.8	1.8	62.8	72	14730
ASHIMFR05015	5	1.5	1.6	0.7	9.1	13	240
ASHIMFR05025	5	2.5	2.0	0.7	10.4	14	320
ASHIMFR07015	7	1.5	1.6	0.7	10.4	15	290
ASHIMFR07025	7	2.5	2.0	0.7	11.5	16	430
ASHIMFR12015	12	1.5	1.6	0.7	14.4	19	510
ASHIMFR12025	12	2.5	2.0	0.7	15.9	20	680
ASHIMFR19015	19	1.5	1.6	0.7	17.2	22	710
ASHIMFR19025	19	2.5	2.0	0.7	19	24	960
ASHIMFR27015	27	1.5	1.6	0.7	21.2	26	980
ASHIMFR27025	27	2.5	2.0	0.7	23.4	29	1340
ASHIMFR37015	37	1.5	1.6	0.7	24	29	1260
ASHIMFR37025	37	2.5	2.0	0.7	26.6	32	1730

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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CABLES

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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