XI 0.6/1kV Cable IEC 60092-353

Eland Product Group: ASH

APPLICATION

A flexible, 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 Uo/U
0.6/1kV

Maximum Operating Voltage Umax
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 ropes (+ XLPE layer for multicores)

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
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 mm²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHIMU0110	1	10	4.1	0.7	8	140
ASHIMU0116	1	16	5.2	0.7	9	200
ASHIMU0125	1	25	6.5	0.9	11	310
ASHIMU0135	1	35	7.5	0.9	12	400
ASHIMU0150	1	50	8.3	1.0	13	600
ASHIMU0170	1	70	10.0	1.1	15	790
ASHIMU0195	1	95	11.8	1.1	17	1050
ASHIMU01120	1	120	13.2	1.2	19	1340
ASHIMU01150	1	150	14.6	1.4	21	1610
ASHIMU01185	1	185	16.5	1.6	23	2020
ASHIMU01240	1	240	19.0	1.7	26	2660
ASHIMU01300	1	300	21.8	1.8	30	3290
ASHIMU02015	2	1.5	1.6	0.7	8	90
ASHIMU02025	2	2.5	2.0	0.7	9	120
ASHIMU02040	2	4	2.6	0.7	10	160
ASHIMU02060	2	6	3.2	0.7	12	230
ASHIMU0210	2	10	4.1	0.7	14	330
ASHIMU0216	2	16	5.2	0.7	17	470
ASHIMU03015	3	1.5	1.6	0.7	9	110
ASHIMU03025	3	2.5	2.0	0.7	10	140
ASHIMU03040	3	4	2.6	0.7	11	200
ASHIMU03060	3	6	3.2	0.7	12	290
ASHIMU03010	3	10	4.1	0.7	15	440
ASHIMU03016	3	16	5.2	0.7	18	630
ASHIMU03025	3	25	6.5	0.9	22	980
ASHIMU03035	3	35	7.5	0.9	24	1300
ASHIMU03050	3	50	8.3	1.0	26	1840
ASHIMU03070	3	70	10.0	1.1	31	2480
ASHIMU03095	3	95	11.8	1.1	35	3300
ASHIMU03120	3	120	13.2	1.2	39	4200
ASHIMU03150	3	150	14.6	1.4	43	4900
ASHIMU03185	3	185	16.5	1.6	48	5980
ASHIMU03240	3	240	19.0	1.7	55	8050
ASHIMU03300	3	300	21.8	1.8	61	10450
ASHIMU04015	4	1.5	1.6	0.7	9	120
ASHIMU04025	4	2.5	2.0	0.7	10	170
ASHIMU04040	4	4	2.6	0.7	12	250
ASHIMU04060	4	6	3.2	0.7	14	360
ASHIMU0410	4	10	4.1	0.7	17	550
ASHIMU0416	4	16	5.2	0.7	19	810
ASHIMU0425	4	25	6.5	0.9	24	1250
ASHIMU0435	4	35	7.5	0.9	26	1650
ASHIMU0450	4	50	8.3	1.0	29	2300
ASHIMU0470	4	70	10.0	1.1	34	2980
ASHIMU0495	4	95	11.8	1.1	39	3980

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ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHIMU04120	4	120	13.2	1.2	43	5070
ASHIMU04150	4	150	14.6	1.4	48	6390
ASHIMU04185	4	185	16.5	1.6	54	7760
ASHIMU04240	4	240	19.0	1.7	61	10490
ASHIMU04300	4	300	21.8	1.8	68	13680
ASHIMU05015	5	1.5	1.6	0.7	10	140
ASHIMU05025	5	2.5	2.0	0.7	12	220
ASHIMU07015	7	1.5	1.6	0.7	11	200
ASHIMU07025	7	2.5	2.0	0.7	13	270
ASHIMU12015	12	1.5	1.6	0.7	15	320
ASHIMU12025	12	2.5	2.0	0.7	17	460
ASHIMU19015	19	1.5	1.6	0.7	18	480
ASHIMU19025	19	2.5	2.0	0.7	20	690
ASHIMU27015	27	1.5	1.6	0.7	21	680
ASHIMU27025	27	2.5	2.0	0.7	24	970
ASHIMU37015	37	1.5	1.6	0.7	24	900
ASHIMU37025	37	2.5	2.0	0.7	28	1300

ELECTRICAL CHARACTERISTICS - SINGLE CORE

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE 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

ELECTRICAL CHARACTERISTICS - 2 CORE

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE 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 mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE 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 mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE 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 mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE 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