TCu/MGT/EPR/ZH/GSWB/ZH 0.6/1kV SW4 Cable

Eland Product Group: ASH

APPLICATION

Fire resistant cables for fixed wiring in ships and on mobile and fixed offshore units.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
-40°C to +90°C

Minimum Bending Radius
Up to 25mm²: 4 x overall diameter
25mm² and above: 6 x overall diameter

CONSTRUCTION

Conductor
1.5mm²: Class 5 flexible tinned copper conductor
2.5mm²: Class 2 stranded tinned copper conductor

Separator
Mica glass tape

Insulation
Halogen free EPR (Ethylene Propylene Rubber) Type GP4

Bedding
Halogen free elastomer EPR (Ethylene Propylene Rubber) Type SB 1

Armour
GSWB (Galvanized Steel Wire Braid)

Sheath
Halogen free heat resistant, oil resisting and flame retardant elastomer compound Type SW4

Core Identification
○ White with ● Black printed numbers

Sheath Colour
● Black

STANDARDS

BS 7917, IEC/EN 60331-21

Flame Retardant according to IEC/EN 60332-3-22, IEC/EN 60332-1-2
Halogen Free according to: IEC/EN 60754-1/2

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 Low Voltage Directive 2014/35/EU, 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 OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHM2015GSWB	2	1.5	14.4	312
ASHM2025GSWB	2	2.5	15.3	350
ASHM2040GSWB	2	4	17.5	464
ASHM2060GSWB	2	6	18.9	542
ASHM210GSWB	2	10	20.9	696
ASHM216GSWB	2	16	23.7	947
ASHM225GSWB	2	25	27.8	1330
ASHM235GSWB	2	35	30.5	1639
ASHM250GSWB	2	50	34.7	2163
ASHM270GSWB	2	70	38.9	2824
ASHM295GSWB	2	95	44.4	3766
ASHM2120GSWB	2	120	48	4483
ASHM3015GSWB	3	1.5	14.2	319
ASHM3025GSWB	3	2.5	15.6	378
ASHM3040GSWB	3	4	17.7	502
ASHM3060GSWB	3	6	19.1	596
ASHM310GSWB	3	10	21.5	803
ASHM316GSWB	3	16	24.4	1102
ASHM325GSWB	3	25	29.7	1611
ASHM335GSWB	3	35	33.2	2138
ASHM350GSWB	3	50	37.1	2669
ASHM370GSWB	3	70	41.5	3529
ASHM395GSWB	3	95	47.3	4730
ASHM3120GSWB	3	120	51.1	5642
ASHM4015GSWB	4	1.5	15.6	366
ASHM4025GSWB	4	2.5	16.7	440
ASHM4040GSWB	4	4	19.3	594
ASHM4060GSWB	4	6	21	727
ASHM410GSWB	4	10	23.6	973
ASHM416GSWB	4	16	26.9	1345
ASHM425GSWB	4	25	33.3	2110
ASHM435GSWB	4	35	36.5	2671
ASHM450GSWB	4	50	40.7	3350
ASHM470GSWB	4	70	45.8	4436
ASHM495GSWB	4	95	52.2	5960
ASHM4120GSWB	4	120	57.7	7093
ASHM5015GSWB	5	1.5	17.5	464
ASHM5025GSWB	5	2.5	18.7	566
ASHM7015GSWB	7	1.5	18.8	580
ASHM7025GSWB	7	2.5	20	708
ASHM12015GSWB	12	1.5	23.9	797
ASHM12025GSWB	12	2.5	26	986
ASHM19015GSWB	19	1.5	27.1	1139
ASHM19025GSWB	19	2.5	29.1	1435
ASHM27015GSWB	27	1.5	31.9	1461
ASHM27025GSWB	27	2.5	37.2	1983
ASHM37015GSWB	37	1.5	35.8	1608

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CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Metal-Coated Wires
1	0.21	20
1.5	0.26	13.7

Class 2 Stranded Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MINIMUM NO. OF WIRES IN CONDUCTOR mm			MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular	Circular Compacted	Shaped	Annealed Copper Conductor
	Cu			Metal-Coated Wires
2.5	7	6	-	7.56
4	7	6	-	4.70
6	7	6	-	3.11
10	7	6	-	1.84
16	7	6	-	1.16
25	7	6	6	0.734
35	7	6	6	0.529
50	19	6	6	0.391
70	19	12	12	0.270
95	19	15	15	0.195
120	37	18	18	0.154

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	SINGLE CORE Amps	2 CORE Amps	3 AND 4 CORE Amps	5 CORE Amps	7 CORE Amps	10 CORE Amps	12 CORE Amps	16 CORE Amps	19 CORE Amps	20 CORE Amps	24 CORE Amps	27 CORE Amps	30 CORE Amps	37 CORE Amps
1	18	15	13	10.5	9	8	8	7	7	7	6	6	6	5
1.5	23	20	16	12	10	9	9	8	7	7	6.5	6.5	6	6
2.5	30	26	21	16	15	13	12	11	10	10	9.5	9	9	8
4	40	34	28	-	-	-	-	-	-	-	-	-	-	-
6	52	44	36	-	-	-	-	-	-	-	-	-	-	-
10	72	61	50	-	-	-	-	-	-	-	-	-	-	-
16	96	82	67	-	-	-	-	-	-	-	-	-	-	-
25	127	108	89	-	-	-	-	-	-	-	-	-	-	-
35	157	133	110	-	-	-	-	-	-	-	-	-	-	-
50	196	167	137	-	-	-	-	-	-	-	-	-	-	-
70	242	206	169	-	-	-	-	-	-	-	-	-	-	-
95	293	249	205	-	-	-	-	-	-	-	-	-	-	-
120	339	288	237	-	-	-	-	-	-	-	-	-	-	-

Ambient air temperature of 45°C

DE-RATING FACTORS

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
DE-RATING FACTOR	1.10	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47