



BS 6883 6571TQ Type SW4 Cable



Eland Product Group: ASH

APPLICATION

Unarmoured earth cable for fixed installations in all areas including accommodation and open deck in ships and offshore units.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Fixed: -40°C to +90°C
Flexed: -15°C to +90°C

Minimum Bending Radius
Up to 10mm² - Fixed: 3 x overall diameter
16mm² to 25mm² - Fixed: 4 x overall diameter
Above 25mm² - Fixed: 6 x overall diameter

CONSTRUCTION

Conductor
Class 2 tinned copper conductor

Insulation
Halogen-free elastomer compound EPR

Sheath
HOFR (Heat and Oil Resistant and Flame Retardant),
halogen-free elastomer compound

Sheath Colour
● Green/Yellow

STANDARDS

BS 6883, EN 60228,
Flame Retardant according to IEC/EN 60332-3-22
Low Smoke Halogen Free according to IEC/EN 61034-1/2,
IEC/EN 60754-1



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 mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASH10010	1	1	0.8	1	4.8	34
ASH10015	1	1.5	0.8	1	5.1	40
ASH10025	1	2.5	0.8	1	5.6	54
ASH1004	1	4	1	1	6.5	78
ASH1006	1	6	1	1	7.1	101
ASH1010	1	10	1	1	8.1	144
ASH1016	1	16	1	1.1	9.5	216
ASH1025	1	25	1.2	1.2	11.4	328
ASH1035	1	35	1.2	1.2	12.6	429
ASH1050	1	50	1.4	1.3	14.3	551
ASH1070	1	70	1.4	1.3	16	753
ASH1095	1	95	1.6	1.4	18.6	1049
ASH10120	1	120	1.6	1.5	20.3	1274
ASH10150	1	150	1.8	1.6	22.4	1568
ASH10185	1	185	2	1.7	24.9	1949
ASH10240	1	240	2.2	1.8	28	2530
ASH10300	1	300	2.4	1.9	30.9	3134
ASH10400	1	400	2.6	2	35.3	4258
ASH10500	1	500	2.8	2.2	39.3	5337

CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1	7	18.2
1.5	7	12.2
2.5	7	7.56
4	7	4.7
6	7	3.11
10	7	1.84
16	7	1.16
25	7	0.734
35	7	0.529
50	19	0.391
70	19	0.27
95	19	0.195
120	37	0.154
150	37	0.126
185	37	0.1
240	37	0.0762
300	61	0.0607
400	61	0.0475
500	61	0.0369

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	SINGLE CORE Amps
1	18
1.5	23
2.5	30
4	40
6	52
10	72
16	96
25	127
35	157
50	196
70	242
95	293
120	339
150	389
185	444
240	522
300	601
400	719
500	827

Ambient air temperature of 45°C

DE-RATING FACTORS

AIR 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

Where more than six bunched cables on cable trays, in cable conduits, pipes or trunking are expected to operate simultaneously full rated capacity, a correction factor of 0.85 should be applied.

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.