



## 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<sub>0</sub>/U  
0.6/1kV

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

**Minimum Bending Radius**  
Up to 10mm<sup>2</sup> - Fixed: 3 x overall diameter  
16mm<sup>2</sup> to 25mm<sup>2</sup> - Fixed: 4 x overall diameter  
Above 25mm<sup>2</sup> - 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<sup>®</sup>

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](http://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<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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.