

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.

CONSTRUCTION

Conductor

Class 2 tinned copper conductor according to BS EN 60228 (previously BS 6360)

Insulation

Halogen-free elastomer compound EPR Type GP4 according to BS 7655

Sheath

HOFR (Heat and Oil Resistant and Flame Retardant), halogen-free elastomer compound Type SW4 according to BS 7655

CABLE STANDARDS

BS 6883, BS EN 50266-2-2 Category A/F, BS EN/IEC 60332-3-22, BS EN/IEC 61034-2, BS EN 50267-2-1, IEC 60754-1: Acid gas for Type SW4 cables is 0.5% HCL or less



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

600/1000V

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

Sheath Colour

Green/Yellow

DIMENSIONS

ELAND PART NO.	CORE NO.	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	MINIMUM NO. OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
	Circular	Annealed Copper Conductor
	Cu	Metal-Coated Wires 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

ELECTRICAL CHARACTERISTICS

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

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

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.