





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR CLASS	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9NHXMH-O1015	1	1.5	1	5.2	92
A9NHXMH-O1025	1	2.5	1	5.6	110
A9NHXMH-O1040	1	4	1	7.1	135
A9NHXMH-O1060	1	6	1	7.4	160
A9NHXMH-O110	1	10	1	7.8	215
A9NHXMH-O116	1	16	2	8.8	295
A9NHXMH-O2015	2	1.5	1	8.2	110
A9NHXMH-O2025	2	2.5	1	9.0	130
A9NHXMH-O2040	2	4	1	9.8	173
A9NHXMH-J3015	3	1.5	1	8.7	120
A9NHXMH-J3025	3	2.5	1	9.6	159
A9NHXMH-J3040	3	4	1	11.0	223
A9NHXMH-J3060	3	6	1	12.5	320
A9NHXMH-J310	3	10	1	15.0	520
A9NHXMH-J316	3	16	2	19.7	850
A9NHXMH-J4015	4	1.5	1	9.2	151
A9NHXMH-J4025	4	2.5	1	10.2	200
A9NHXMH-J4040	4	4	1	12.2	300
A9NHXMH-J4060	4	6	1	13.2	395
A9NHXMH-J410	4	10	1	15.8	595
A9NHXMH-J416	4	16	2	20.0	935
A9NHXMH-J5015	5	1.5	1	10.0	168
A9NHXMH-J5025	5	2.5	1	11.1	238
A9NHXMH-J5040	5	4	1	13.6	350
A9NHXMH-J5060	5	6	1	15.0	480
A9NHXMH-J510	5	10	1	17.7	773
A9NHXMH-J516	5	16	2	22.0	1290
A9NHXMH-J525	5	25	2	27.0	1725
A9NHXMH-J7015	7	1.5	1	10.2	210
A9NHXMH-J7025	7	2.5	1	12.2	300

## CONDUCTORS

### Class 1 Solid Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular, Annealed Copper Conductors
	Plain Wires
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83

The above table is in accordance with EN 60228



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

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MINIMUM NO. OF WIRES IN CONDUCTOR		MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Circular		Circular, Annealed Copper Conductors	
	Cu		Plain Wires	
16	7		1.15	
25	7		0.727	

The above table is in accordance with EN 60228

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity (BS7671 18th Ed. Table 4E2A)

Conductor cross-sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (free air or on a perforated cable tray etc, horizontal or vertical)	
	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable three-phase AC	1 two-core cable*, single-phase AC or DC	1 three- or four-core cable three-phase AC
	2	3	4	5	6	7	8	9
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1.5	18.5	16.5	22	19.5	24	22	26	23
2.5	25	22	30	26	33	30	36	32
4	33	30	40	35	45	40	49	42
6	42	38	51	44	58	52	63	54
10	57	51	69	60	80	71	86	75
16	76	68	91	80	107	96	115	100
25	99	89	119	105	138	119	149	127

### Multicore 90°C thermosetting insulated and thermoplastic sheathed cables, non-armoured (COPPER CONDUCTORS)

Ambient temperature: 30°C Conductor operating temperature: 90°C

- Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).
- Where it is intended to group a cable in this table with other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).
- For cables having flexible conductors see section 2.4 of this appendix for adjustment factors for current-carrying capacity and voltage drop.

### VOLTAGE DROP (per ampere per metre) (BS7671 18th Ed. Table 4E2B)

Conductor cross-sectional area	Two-core cable DC	Two-core cable, single-phase AC	Three- or four-core cable, three-phase AC
	2	3	4
(mm <sup>2</sup> )	(mV/A/m)	(mV/A/m)	(mV/A/m)
1	46	46	40
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	4.0
16	2.9	2.9	2.5

Conductor operating temperature: 90°C

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.