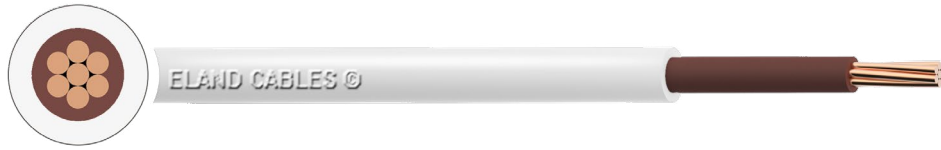




## 6181B (Meter Tails) Cable



Eland Product Group: B2N

### APPLICATION

Fixed installation in walls, on boards and in channels or embedded in plaster. Low smoke emission and corrosive gasses in case of fire.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
450/750V  
0.6/1kV

**Test Voltage**  
2.5kV  
3.5kV

**Temperature Rating**  
Maximum Operating temperature: +90°C  
Maximum Short Circuit: +250°C

**Minimum Bending Radius**  
Up to 25mm<sup>2</sup>: 8 x overall diameter  
Above 25mm<sup>2</sup>: 12 x overall diameter

### CONSTRUCTION

**Conductor**  
Class 1 Solid copper  
Class 2 Stranded copper

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Outer Sheath**  
LSZH (Low-smoke zero halogen)

**Insulation Colour**  
● Blue ● Brown

**Sheath Colour**  
○ White

### CABLE THIRD-PARTY ACCREDITATION



Cables are tested and accredited by BASEC, The British Approvals Service for Cables

### STANDARDS

BS 7211, IEC 60502-1, EN 60228

Flame Retardant according to EN 60332-1  
Halogen free according to EN 60754-1/2, EN 61034

### ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069



EMS 672067



OHS 672066

### REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KIM 634267





## DIMENSIONS

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OVERSHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2N010015WH/**	1.5	1.38	0.7	0.8	4.4	31
B2N010025WH/**	2.5	1.76	0.7	0.8	4.8	41
B2N010040WH/**	4	2.5	0.7	0.9	5.7	63
B2N010060WH/**	6	3.1	0.7	0.9	6.3	83
B2N01010WH/**	10	3.85	0.7	0.9	7.1	125
B2N01016WH/**	16	4.8	0.7	0.9	8	183
B2N01025WH/**	25	5.85	0.9	1	9.7	276
B2N01035WH/**	35	6.9	0.9	1.1	10.9	374
B2N01050WH/**	50	8.1	1.1	1.4	13.1	520
B2N01070WH/**	70	9.7	1.1	1.4	14.7	715
B2N01095WH/**	95	11.4	1.1	1.8	17.2	995
B2N01120WH/**	120	12.65	1.2	1.8	18.7	1225
B2N01150WH/**	150	14.4	1.4	1.8	20.8	1510
B2N01185WH/**	185	15.75	1.6	2	23	1870
B2N01240WH/**	240	18.2	1.7	2	25.6	2425
B2N01300WH/**	300	20.5	2	2.2	28.9	3048

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g.  
B2N010015WH/BL = 1.5mm<sup>2</sup> Blue insulated

## COLOUR CODE

COLOUR	BROWN	BLUE
CODE	BR	BL

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL ETC) Amps		REFERENCE METHOD B (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL OR IN TRUNKING ETC) Amps		REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY ETC HORIZONTAL OR VERTICAL ETC) Amps				
	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC flat and touching	3 or 4 Cables Three-Phase AC flat and touching or trefoil	Touching			Spaced by one diameter	
							2 Cables Single-Phase AC or DC flat	3 Cables Three-Phase AC flat	3 Cables Three-Phase AC trefoil	Horizontal	Vertical
1	14	13	17	15	19	17.5	-	-	-	-	-
1.5	19	17	23	20	25	23	-	-	-	-	-
2.5	26	23	31	28	34	31	-	-	-	-	-
4	35	31	42	37	46	41	-	-	-	-	-
6	45	40	54	48	59	54	-	-	-	-	-
10	61	54	75	66	81	74	-	-	-	-	-
16	81	73	100	88	109	99	-	-	-	-	-
25	106	95	133	117	143	130	161	141	135	182	161
35	131	117	164	144	176	161	200	176	169	226	201
50	158	141	198	175	228	209	242	216	207	275	246
70	200	179	253	222	293	268	310	279	268	353	318
95	241	216	306	269	355	326	377	342	328	430	389
120	278	249	354	312	413	379	437	400	383	500	454
150	318	285	393	342	476	436	504	464	444	577	527
185	362	324	449	384	545	500	575	533	510	661	605
240	424	380	528	450	644	590	679	634	607	781	719
300	486	435	603	514	743	681	783	736	703	902	833
400	-	-	683	584	868	793	940	868	823	1085	1008
500	-	-	783	666	990	904	1083	998	946	1253	1169
630	-	-	900	764	1130	1033	1254	1151	1088	1454	1362

Ambient temperature: 30°C

Conductor operating temperature: 90°C

The above table is in accordance with Table 4E1A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

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.