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**ELAND<sup>®</sup>  
CABLES**

# UL3271 Cable



Eland Product Group: B4T

## APPLICATION

Single core insulated hook-up and lead wire suitable for motors, transformer, and panel wiring.

## CHARACTERISTICS

### Voltage Rating

600V

### Test Voltage

2.5kV

### Temperature Rating

+125°C

### Minimum Bending Radius

8 x overall diameter

## CONSTRUCTION

### Conductor

Stranded Annealed Copper Conductor

### Insulation

XLPE (Cross-linked Polyethylene)

### Insulation Colour

● Red ● Black ● Blue ● Light Blue ● Dark Blue ● Yellow  
● Green/Yellow ● Grey ● Brown ● Orange ○ White ● Violet  
● Green ● Pink

## STANDARDS

UL Style Number 3271

## THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECCE 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 2015/85/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>	CONDUCTOR NO. OF WIRES	APPROXIMATE AWG	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm
B4T*800005	1	0.5	16	21	0.78	2.39
B4T**00075	1	0.75	26	19	0.78	2.61
B4T**0010	1	1	32	18	0.78	2.73
B4T**0015	1	1.5	30	16	0.78	3.03
B4T**0025	1	2.5	48	14	0.78	3.43
B4T**0040	1	4	54	12	0.78	3.94
B4T**0060	1	6	84	10	0.78	4.53
B4T**010	1	10	134	8	1.16	6.07
B4T**016	1	16	114	6	1.16	7.04
B4T**025	1	25	184	4	1.16	8.32
B4T**035	1	35	288	2	1.16	9.82
B4T**050	1	50	370	1	1.41	11.33
B4T**070	1	70	372	2/0	1.41	13.45
B4T**095	1	95	470	3/0	1.41	14.77
B4T**120	1	120	592	4/0	1.41	16.23

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below. e.g. B4TWH00075 = 0.75mm<sup>2</sup> White

## COLOUR CODES

COLOUR	Black	Green	Blue	Light Blue	Dark Blue	Grey	Green/Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	GN	BL	LTBL	DKBL	GR	GY	OR	RD	PK	YW	VI	BR	WH

## CONDUCTORS

### Stranded Annealed Copper Conductor

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
0.5	0.180	43.6
0.75	0.180	27.4
1	0.180	21.8
1.5	0.234	13.7
2.5	0.234	8.62
4	0.281	5.43
6	0.281	3.409
10	0.281	2.144
16	0.383	1.348
25	0.383	0.8481
35	0.383	0.5335
50	0.383	0.423
70	0.477	0.266
95	0.477	0.211
120	0.477	0.1673



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## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT RATING Amps	SPARK TESTING VOLTAGE (AC) KV	MINIMUM INSULATION RESISTANCE (15.6°C ) MΩ Km
0.5	13.5	5.00	1000
0.75	17.6	5.00	1000
1	23.2	6.00	1000
1.5	30.7	6.00	1000
2.5	41	6.00	1000
4	54.8	6.00	1000
6	74.6	6.00	1000
10	94	7.50	1000
16	125	7.50	1000
25	176	7.50	1000
35	234	7.50	1000
50	277	7.50	1000
70	337	7.50	1000
95	443	7.50	1000
120	510	7.50	1000

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.