

## BR880 Aluminium XLPE / PVC Power Cable



Eland Product Group: A3T

### APPLICATION

BR880 solid sector shaped conductors for trackside signalling power supplies.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
0,6/1kV

**Temperature Rating**  
BS 6346: +70°C  
BS 5467: +90°C

#### Limited Use

Distribution of signalling power only  
(Not suitable for general signalling use)

### CONSTRUCTION

#### Conductor

Class 1 sector shaped solid aluminium conductor

#### Insulation

XLPE (Cross-Linked Polyethylene) or  
PVC (Polyvinyl Chloride)

#### Overall Screen

Al/PET (Aluminium/Polyester Tape)

#### Separator

PET (Polyester Tape)

#### Sheath

PVC (Polyvinyl Chloride)

#### Core Identification

2 cores: ● Brown ● Blue

4 cores: ● Blue ● Brown ● Black ● Grey

#### Sheath Colour

● Black

### STANDARDS

BR880



### 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 meets the requirements of 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™.



KM 634287





## DIMENSIONS

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	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
A3TR016ALI	006/142419	2	16	1	1.8	14.3	420
A3TR025ALI	006/142519	2	25	1.2	1.8	16.6	455
A3TR035ALI	006/142609	2	35	1.2	1.8	18	525
A3TR050ALI	006/142629	2	50	1.4	1.8	20.4	620
A3TR070ALI	006/142639	2	70	1.4	1.9	22.8	840
A3TR0295ALI	006/142644	2	95	1.6	2	26.2	1020
A3TR0470ALI	006/151469	4	70	1.4	2	30.6	1750
A3TR0495ALI	006/151494	4	95	1.6	2.2	35.5	2100
A3TR04120ALI	006/166820	4	120	1.2	2.3	48.0	2300

## 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
	Aluminium and Aluminium Alloy Conductors
	Circular or Shaped
16	1.91
25	1.2
35	0.868
50	0.641
70	0.443
95	0.32
120	0.253

The above table is in accordance with BS EN 60228 (previously BS 6360)

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.