

BR880 Aluminium XLPE / PVC Power Cable



Eland Product Group: **A3T**

APPLICATION

BR880 solid sector shaped conductors for trackside signalling power supplies.

CONSTRUCTION

Conductor

Class 1 sector shaped solid aluminium conductor according to BS EN 60228 (previously BS 6360)

Insulation

XLPE (Cross-Linked Polyethylene) Type GP8 according to BS 7655 or PVC (Polyvinyl Chloride) Type T11 according to BS 50363

Separator

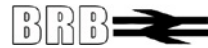
PET (Polyester Tape)

Sheath

PVC (Polyvinyl Chloride) Type 9 according to BS 7655

CABLE STANDARDS

BR880, BS 5467, BS 6346



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
BS 6346: +70°C
BS 5467: +90°C

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

Core Identification
2 core: ● Brown ● Blue
4 core: ● Blue ● Brown ● Black ● Grey

Sheath Colour
● Black

DIMENSIONS

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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	-	4	95	1.6	2.2	35.5	2100

CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C	
	Aluminium and Aluminium Alloy Conductors	
	Circular or Shaped ohms/km	
16	1.91	
25	1.2	
35	0.868	
50	0.641	
70	0.443	
95	0.32	

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