

NR/PS/SIG/00005 Signalling Type B1, B2 Cable



Eland Product Group: A5R

APPLICATION

Heavy duty EPR insulated and Heavy duty PCP sheathed single, twin and multi-core cables.

CHARACTERISTICS

Voltage Rating Uo/U
6.5/1.1kV

Temperature Rating
-25°C to +85°C

CONSTRUCTION

Conductor

Class 2 stranded tinned conductor

Insulation

EPR (Ethylene Propylene Rubber)

Sheath

HDPCP (Heavy Duty Polychloroprene)

Sheath Colour

● Black

DIMENSIONS

| ELAND PART NO. | NETWORK RAIL PART NO. / PADS | CABLE TYPE | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | MINIMUM THICKNESS OF SHEATH mm | MINIMUM OVERALL DIAMETER mm | MAXIMUM OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|------------------------------|------------|--------------|--|--------------------------------|-----------------------------|-----------------------------|----------------------|
| A5RB101025 | 006/120061 | B1 | 1 | 2.5 | 2 | 7.2 | 8.9 | 34 |
| A5RB110010 | 006/120062 | B1 | 1 | 10 | 2 | 9.4 | 11.8 | 205 |
| A5RB110035 | 006/120063 | B1 | 1 | 35 | 2 | 12.9 | 16.1 | 495 |
| A5R02010 | 006/161004 | B2 | 2 | 1 | 2 | 9.9 | 13 | 240 |
| A5R02015 | 006/120081 | B2 | 2 | 1.5 | 2 | 9.4 | 12.1 | 151 |
| A5R02025 | 006/120082 | B2 | 2 | 2.5 | 2 | 10.5 | 13.1 | 187 |
| A5R02040 | 006/161005 | B2 | 2 | 4 | 2 | 13.2 | 16.3 | 267 |
| A5R0210 | 006/120083 | B2 | 2 | 10 | 2 | 15 | 18.7 | 448 |
| A5R0216 | 006/120113 | B2 | 2 | 16 | 2 | 16.7 | 20.9 | 630 |
| A5R0235 | 006/120084 | B2 | 2 | 35 | 2.2 | 22.3 | 27.8 | 1520 |
| A5R0270 | 006/120085 | B2 | 2 | 70 | 2.4 | 28.8 | 36 | 1904 |

CABLE THIRD-PARTY ACCREDITATION



Network Rail (NR) certified and PADS listed as meeting the requirements for installation within their network

STANDARDS

NR/PS/SIG/00005

Flame Retardant according to BS EN / IEC 60332-1-2

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.



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™.





DIMENSIONS

| ELAND PART NO. | NETWORK RAIL PART NO. / PADS | CABLE TYPE | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | MINIMUM THICKNESS OF SHEATH mm | MINIMUM OVERALL DIAMETER mm | MAXIMUM OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|------------------------------|------------|--------------|--|--------------------------------|-----------------------------|-----------------------------|----------------------|
| A5R0295 | 006/120086 | B2 | 2 | 95 | 2.6 | 33.2 | 41.5 | 2885 |
| A5R0310 | 006/161008 | B2 | 3 | 10 | 2 | 17.3 | 20.7 | 525 |
| A5R0316 | 006/161009 | B2 | 3 | 16 | 2 | 19.8 | 23.2 | 770 |
| A5R04075 | 006/120087 | B2 | 4 | 0.75 | 2 | 10.2 | 12.8 | 173 |
| A5R04015 | 006/120088 | B2 | 4 | 1.5 | 2 | 10.9 | 13.7 | 220 |
| A5R04025 | 006/120089 | B2 | 4 | 2.5 | 2 | 11.9 | 14.8 | 264 |
| A5R07075 | 006/120090 | B2 | 7 | 0.75 | 2 | 11.8 | 14.7 | 240 |
| A5R07015 | 006/120091 | B2 | 7 | 1.5 | 2 | 12.6 | 15.8 | 305 |
| A5R07025 | 006/120092 | B2 | 7 | 2.5 | 2 | 13.8 | 17.2 | 390 |
| A5R10075 | 006/120093 | B2 | 10 | 0.75 | 2 | 14.4 | 18 | 345 |
| A5R10015 | 006/120094 | B2 | 10 | 1.5 | 2 | 15.6 | 19.4 | 405 |
| A5R10025 | 006/120095 | B2 | 10 | 2.5 | 2 | 17.1 | 21.3 | 565 |
| A5R12075 | 006/120096 | B2 | 12 | 0.75 | 2 | 14.8 | 18.5 | 350 |
| A5R12015 | 006/120097 | B2 | 12 | 1.5 | 2 | 16 | 20 | 465 |
| A5R1225 | 006/120098 | B2 | 12 | 2.5 | 2 | 17.6 | 22 | 570 |
| A5R19075 | 006/120099 | B2 | 19 | 0.75 | 2 | 17 | 21.3 | 490 |
| A5R19015 | 006/120100 | B2 | 19 | 1.5 | 2 | 18.5 | 23.1 | 649 |
| A5R19025 | 006/120101 | B2 | 19 | 2.5 | 2 | 20.4 | 25.5 | 886 |
| A5R27075 | 006/120102 | B2 | 27 | 0.75 | 2 | 20.1 | 25.1 | 640 |
| A5R27015 | 006/120103 | B2 | 27 | 1.5 | 2.2 | 22.2 | 27.8 | 880 |
| A5R27025 | 006/120104 | B2 | 27 | 2.5 | 2.2 | 24.6 | 30.7 | 1225 |
| A5R37075 | 006/120105 | B2 | 37 | 0.75 | 2.2 | 22.7 | 28.4 | 850 |
| A5R37015 | 006/120106 | B2 | 37 | 1.5 | 2.2 | 25.1 | 31.4 | 1190 |
| A5R37025 | 006/120107 | B2 | 37 | 2.5 | 2.4 | 27.8 | 34.7 | 1310 |
| A5R48075 | 006/120108 | B2 | 48 | 0.75 | 2.2 | 25.7 | 32.2 | 1590 |
| A5R48015 | 006/120109 | B2 | 48 | 1.5 | 2.4 | 28.1 | 35.1 | 1650 |
| A5R48025 | 006/120110 | B2 | 48 | 2.5 | 2.6 | 31.2 | 39 | 1980 |
| A5R12075/6PR | 006/120111 | B2 | 6 x 2 | 0.75 | 2 | 19.7 | 24.6 | 465 |
| A5R12025/6PR | 006/120114 | B2 | 6 x 2 | 2.5 | 2 | 23.7 | 29.6 | 570 |

CONDUCTORS

| NOMINAL CROSS SECTIONAL AREA mm ² | MINIMUM NO. OF WIRES IN CONDUCTOR | | | | | | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km |
|--|-----------------------------------|----|--------------------|----|--------|----|---|
| | Circular | | Circular Compacted | | Shaped | | Annealed Copper Conductor |
| | Cu | Al | Cu | Al | Cu | Al | Metal-Coated Wires |
| 0.75 | 7 | - | - | - | - | - | 24.8 |
| 1 | 7 | - | - | - | - | - | 18.2 |
| 1.5 | 7 | - | 6 | - | - | - | 12.2 |
| 2.5 | 7 | - | 6 | - | - | - | 7.56 |
| 4 | 7 | - | 6 | - | - | - | 4.7 |
| 6 | 7 | - | 6 | - | - | - | 3.11 |
| 10 | 7 | 7 | 6 | 6 | - | - | 1.84 |
| 16 | 7 | 7 | 6 | 6 | - | - | 1.16 |
| 35 | 7 | 7 | 6 | 6 | 6 | 6 | 0.529 |
| 70 | 19 | 19 | 12 | 12 | 12 | 12 | 0.27 |
| 95 | 19 | 19 | 15 | 15 | 15 | 15 | 0.195 |

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.