

# Signalling Cable Type B1,B2

Eland Product Group **A5R**



## Application

Heavy Duty EPR insulated and Heavy Duty PCP sheathed single, twin and multicore cables.

## Standards

NR/PS/SIG/00005 (formerly RT/E/PS/00005)

## Technical Data

### Conductor

Class 2 tinned conductor to BS EN 60228:2005 (previously BS6360)

### Insulation

EPR (Ethylene Propylene Rubber)  
Type GP4 to BS7655

### Sheath

HDPCP (Heavy Duty Polychloroprene) Type RS2 to BS7655

### Sheath Colour

Black

### Voltage Rating

650/1100V

### Temperature Rating

-25°C to +85°C

## Dimensions

Eland Part Number	Rail Catalogue Number	Cable Type	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Thickness of Sheath mm	Overall Diameter Min. mm	Overall Diameter Max. mm	Nominal Weight kg/Km
A5RB101025	006/120061	B1	1 x 2.50	7/0.67	2.0	7.2	8.9	34
A5RB110010	006/120062	B1	1 x 10.00	7/1.35	2.0	9.4	11.8	205
A5RB110035	006/120063	B1	1 x 35.00	19/1.53	2.0	12.9	16.1	495
A5R02015	006/120081	B2	2 x 1.50	7/0.53	2.0	9.4	12.1	151
A5R02025	006/120082	B2	2 x 2.50	7/0.67	2.0	10.5	13.1	187
A5R0210	006/120083	B2	2 x 10.00	7/1.35	2.0	15.0	18.7	448
A5R0216	006/120113	B2	2 x 16.00	7/1.70	2.0	16.7	20.9	627
A5R0235	006/120084	B2	2 x 35.00	19/1.53	2.2	22.3	27.8	1185
A5R0270	006/120085	B2	2 x 70.00	19/2.14	2.4	28.8	36.0	1904
A5R0295	006/120086	B2	2 x 95.00	19/2.52	2.6	33.2	41.5	2885
A5R04075	006/120087	B2	4 x 0.75	7/0.37	2.0	10.2	12.8	173
A5R04015	006/120088	B2	4 x 1.50	7/0.53	2.0	10.9	13.7	220
A5R04025	006/120089	B2	4 x 2.50	7/0.67	2.0	11.9	14.8	264
A5R07075	006/120090	B2	7 x 0.75	7/0.37	2.0	11.8	14.7	239
A5R07015	006/120091	B2	7 x 1.50	7/0.53	2.0	12.6	15.8	304
A5R07025	006/120092	B2	7 x 2.50	7/0.67	2.0	13.8	17.2	387
A5R10075	006/120093	B2	10 x 0.75	7/0.37	2.0	14.4	18.0	342
A5R10015	006/120094	B2	10 x 1.50	7/0.53	2.0	15.6	19.4	402
A5R10025	006/120095	B2	10 x 2.50	7/0.67	2.0	17.1	21.3	564
A5R12075	006/120096	B2	12 x 0.75	7/0.37	2.0	14.8	18.5	351
A5R12075/6PR	006/120111	B2	6 x 2 x 0.75	7/0.37	2.0	19.7	24.6	469

Eland Part Number	Rail Catalogue Number	Cable Type	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Thickness of Sheath mm	Overall Diameter Min. mm	Overall Diameter Max. mm	Nominal Weight kg/Km
A5R12015	006/120097	B2	12 x 1.50	7/0.67	2.0	16.0	20.0	466
A5R1225	006/120098	B2	12 x 2.50	7/0.37	2.0	17.6	22.0	612
A5R19075	006/120099	B2	19 x 0.75	7/0.37	2.0	17.0	21.3	490
A5R19015	006/120100	B2	19 x 1.50	7/0.53	2.0	18.5	23.1	649
A5R19025	006/120101	B2	19 x 2.50	7/0.67	2.0	20.4	25.5	886
A5R27075	006/120102	B2	27 x 0.75	7/0.37	2.0	20.1	25.1	637
A5R27015	006/120103	B2	27 x 1.50	7/0.53	2.2	22.2	27.8	850
A5R27025	006/120104	B2	27 x 2.50	7/0.67	2.2	24.6	30.7	1222
A5R37075	006/120105	B2	37 x 0.75	7/0.37	2.2	22.7	28.4	846
A5R37015	006/120106	B2	37 x 1.50	7/0.53	2.2	25.1	31.4	1185
A5R37025	006/120107	B2	37 x 2.50	7/0.67	2.4	27.8	34.7	2030
A5R48075	006/120108	B2	48 x 0.75	7/0.37	2.2	25.7	32.2	1083
A5R48015	006/120109	B2	48 x 1.50	7/0.53	2.4	28.1	35.1	1581
A5R48025	006/120110	B2	48 x 2.50	7/0.67	2.6	31.2	39.0	2010

## Conductors

### Class 2 stranded conductors for Single Core and Multi-Core cables

1	2	3	4	5	6	7	9
Nominal Cross Sectional Area mm <sup>2</sup>	Minimum Number of Wires in the Conductor						Maximum Resistance of Conductor at 20°C
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor
	Cu	Al	Cu	Al	Cu	Al	Metal-Coated Wires ohms/Km
0.75	7	-	-	-	-	-	24.8000
1.00	7	-	-	-	-	-	18.2000
1.50	7	-	6	-	-	-	12.2000
2.50	7	-	6	-	-	-	7.5600
4.00	7	-	6	-	-	-	4.7000
6.00	7	-	6	-	-	-	3.1100
10.00	7	7	6	6	-	-	1.8400
16.00	7	7	6	6	-	-	1.1600
35.00	7	7	6	6	6	6	0.5290
70.00	19	19	12	12	12	12	0.2700
95.00	19	19	15	15	15	15	0.1950

Table in accordance with BS EN 60228:2005 (previously BS6360)

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.