

Signalling Cable Type B1,B2

Eland Product Group Reference **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)

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 ²	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
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

Nominal Cross Sectional Area mm ²	Minimum Number of Wires in the Conductor						Maximum Resistance of Conductor at 20°C Annealed Copper Conductor Metal-Coated Wires ohms/Km
	Circular		Circular Compacted		Shaped		
	Cu	Al	Cu	Al	Cu	Al	
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)

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