

NR/PS/SIG/00005 Signalling Type E1, E2, E3 Cable



Eland Product Group: **A5R**

APPLICATION

Type E LSZH signalling cable suitable for tails.

CONSTRUCTION

Conductor

Class 5 tinned conductor

Insulation

LSZH (Low Smoke Zero Halogen) or
EPR (Ethylene Propylene Rubber)

Drain Wire

Type E3 only

Screen (Type E3 only)

AL (Aluminium Tape)

Separator

PET (Polyethylene Terephthalate)

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

NR/PS/SIG/00005

BS EN 60228



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)

650/1100V

Temperature Rating

-25°C to +85°C

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
A5RE10025	006/120172	E1	1	2.5	3.8	11.2	14	174
A5RE202025	006/120170	E2	2	2.5	3.8	14.9	18.8	359
A5RE204025	006/120171	E2	4	2.5	3.8	16.4	20.9	445
A5RE207025	006/120173	E2	7	2.5	3.8	18.7	23.7	590
A5RE210025	006/120174	E2	10	2.5	3.8	22.5	28.6	784
A5RE212025	006/120175	E2	12	2.5	3.8	23.2	29.3	868
A5RE302025	006/160090	E3	2 + Drain	2.5	3.8	15	20	341

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
		Metal-Coated Wires ohms/km
2.5	0.26	8.21

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