



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



Eland Product Group: A5R

## APPLICATION

Type E LSZH signalling cable suitable for tails.

## CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
6.5/1.1kV

**Temperature Rating**  
-25°C to +85°C

## CONSTRUCTION

**Conductor**  
Class 5 tinned conductor

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

**Drain Wire**  
Type E3 only

**Screen (E3 only)**  
AL (Aluminium Tape)

**Separator**  
PET (Polyethylene Terephthalate)

**Sheath**  
LSZH (Low Smoke Zero Halogen )

**Sheath Colour**  
● Black

## 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, BS EN 60228, BS EN 60754-1

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

## THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECET CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



## SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.elandcables.com/company/about-us/esg-sustainability](https://www.elandcables.com/company/about-us/esg-sustainability)



## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	CABLE TYPE	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	MAXIMUM NO. OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Metal-Coated Wires
2.5	0.26	8.21

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