

# Cat 5E 25 Pair UTP LSZH Cable



Eland Product Group: **A8N**

## APPLICATION

High performance 25 pair LSZH backbone cable suitable for 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

## CONSTRUCTION

### Conductor

Class 1 solid copper conductor

### Insulation

PE (Polyethylene)

### Filler

PE (Polyethylene) filler core

### Separator

Mylar tape

### Sheath

LSZH (Low Smoke Zero Halogen)

## CHARACTERISTICS

### Voltage Rating

300V

### Temperature Rating

Fixed: -20°C to +60°C

### Minimum Bending Radius

Full load: 20 x overall diameter

No load: 15 x overall diameter

### Core Identification:

Pair 1: ● White/Blue ● Blue/White

Pair 2: ● White/Orange ● Orange/White

Pair 3: ● White/Green ● Green/White

Pair 4: ● White/Brown ● Brown/White

Pair 5: ● White/Grey ● Grey/White

Pair 6: ● Red/Blue ● Blue/Red

Pair 7: ● Red/Orange ● Orange/Red

Pair 8: ● Red/Green ● Green/Red

Pair 9: ● Red/Brown ● Brown/Red

## CABLE STANDARDS

TIA/EIA-568-B.2-1 6/2002. ISO/IEC 11801 2nd Edition



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.

- Pair 10: ● Red/Grey ● Grey/Red  
Pair 11: ● Black/Blue ● Blue/Black  
Pair 12: ● Black/Orange ● Orange/Black  
Pair 13: ● Black/Green ● Green/Black  
Pair 14: ● Black/Brown ● Brown/Black  
Pair 15: ● Black/Grey ● Grey/Black  
Pair 16: ● Yellow/Blue ● Blue/Yellow  
Pair 17: ● Yellow/Orange ● Orange/Yellow  
Pair 18: ● Yellow/Green ● Green/Yellow  
Pair 19: ● Yellow/Brown ● Brown/Yellow  
Pair 20: ● Yellow/Grey ● Grey/Yellow  
Pair 21: ● Purple/Blue ● Blue/Purple  
Pair 22: ● Purple/Orange ● Orange/Purple  
Pair 23: ● Purple/Green ● Green/Purple  
Pair 24: ● Purple/Brown ● Brown/Purple  
Pair 25: ● Purple/Grey ● Grey/Purple

### Sheath Colour

- Grey

## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL DIAMETER OF CONDUCTOR mm <sup>2</sup>	NOMINAL THICKNESS OF PAIR INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8NCAT5E25PRLS	25	0.51	0.91	12	194

## PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION AT (-dB/100m)(±15%)	NEXT (dB)Min.	RL (dB)(±15%)
1	2	65.3	20
4	4.1	56.3	23
8	5.8	51.8	24.5
10	6.5	50.3	25
16	8.2	47.3	25
20	9.3	45.8	25
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17	38.4	21.5
100	22	35.3	20.1

## ELECTRICAL CHARACTERISTICS

IMPEDANCE (1-100 Hz) ohms	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
100(+/-15)	101.3