

# Cat 5E 25 Pair U/UTP PE Duct Grade Cable



Eland Product Group: A8N

## APPLICATION

High performance 25 pair backbone cable suitable for outdoor use (in a duct). It can be installed in 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

## CHARACTERISTICS

### Temperature Rating

Fixed: -20°C to +60°C

### Minimum Bending Radius

Full load: 20 x overall diameter

No load: 15 x overall diameter

## CONSTRUCTION

### Conductor

Solid copper conductor

### Insulation

HDPE (High Density Polyethylene)

### Filler

PE (Polyethylene)

### Separator

Mylar shield

### Sheath

PE (Polyethylene)

### 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
- 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

- Black

## STANDARDS

ISO / IEC 11801, TIA 568-B.2-1



## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





## 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/305m box
A8NCAT5E25PRDG	25	0.51	0.91	12	154.4

## PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY ns
1	2	65.3	62.3	20	63.8	60.8	570
4	4.1	56.3	53.3	23	51.8	48.8	552
8	5.8	51.8	48.8	24.5	45.7	42.7	546.73
10	6.5	50.3	47.3	25	43.8	40.8	545.38
16	8.2	47.2	44.4	25	39.7	36.7	543
20	9.3	45.8	42.8	25	37.8	34.8	542.05
25	10.4	44.3	41.3	24.3	35.8	32.8	541.2
31.25	11.7	42.9	39.9	23.6	33.9	30.9	540.44
62.5	17	38.4	35.4	21.5	27.9	24.9	538.55
100	22	35.3	32.3	20.1	23.8	20.8	537.6

## ELECTRICAL CHARACTERISTICS

IMPEDANCE (1-100MHz) ohms	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
100±15	101.2

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.