

# 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.

## CONSTRUCTION

### Conductor

Solid copper conductor

### Insulation

PE (Polyethylene)

### Filler

PE (Polyethylene)

### Separator

Mylar shield

### Rip Cord

Nylon

### Sheath

PE (Polyethylene)

## 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.

## CHARACTERISTICS

### Voltage Rating

150V

### Temperature Rating

Fixed: -20°C to +60°C

### 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

## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF PAIR INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8NCAT5E25PRDG	25	0.51	0.91	12	154.4

## PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION (-dB/100m)(±30%)	NEXT WORST PAIR (dB/100m)	RL (dB/100m)
1	2	52.24	16
4	4.1	45.04	18.4
8	5.8	41.44	19.6
10	6.5	40.24	20
16	8.2	37.84	20
20	9.3	36.64	20
25	10.4	35.44	19.44
31.25	11.7	34.32	18.88
62.5	17	30.72	17.2
100	22	28.24	16.08

## ELECTRICAL CHARACTERISTICS

ELAND PART NO.	IMPEDANCE (1 - 100 MHz) ohms	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
A8NCAT5E25PRDG	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.