

Cat 5e 25 Pair 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.