

# Cat 5E 25 Pair UTP RBS Duct Grade Cable

Eland Product Group A8N

## Application

This 25 pair high performance backbone cable is 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.



## Conductor

Class 1 solid plain copper

## Insulation

SPE (Solid Polyethylene)

## Filler

PE (Polyethylene) dummy core

## Separator

Mylar tape

## Inner Sheath

PE (Polyethylene) and  
PP (Polypropylene)

## Sheath

PP (Polypropylene)

## Sheath Colour

Black

## Temperature Rating

Installation: -40°C to + 80°C  
Operating: -40°C to + 80°C

## Minimum Bending Radius

Full load: 20 x overall diameter  
No load: 15 x overall diameter

## Core Identification

25 pairs:  
White/Blue + Blue/White,  
White/Orange + Orange/White,  
White/Green + Green/White,  
White/Brown + Brown/White,  
White/Grey + Grey/White,  
Red/Blue + Blue/Red,  
Red/Orange + Orange/Red,  
Red/Green + Green/Red,  
Red/Brown + Brown/Red,  
Red/Grey + Grey/Red,  
Black/Blue + Blue/Black,  
Black/Orange + Orange/Black,  
Black/Green + Green/Black,  
Black/Brown + Brown/Black,  
Black/Grey + Grey/Black,  
Yellow/Blue + Blue/Yellow,  
Yellow/Orange + Orange/Yellow,  
Yellow/Green + Green/Yellow,  
Yellow/Brown + Brown/Yellow,  
Yellow/Grey + Grey/Yellow,  
Purple/Blue + Blue/Purple,  
Purple/Orange + Orange/Purple,  
Purple/Green + Green/Purple,  
Purple/Brown + Brown/Purple,  
Purple/Grey + Grey/Purple.

Eland Part Number	No. of Pairs	Nominal Diameter of Conductor mm	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A8NCAT5E25PRDG	25	0.51	0.91	14.8	176

## Performance Characteristics

Frequency MHz	Attenuation at 20°C (-dB/100m)(±15%)	NEXT Worst Pair (dB)(±15%)	RL (dB) (±15%)
1.00	2.0	65.3	20.0
4.00	4.1	56.3	23.0
8.00	5.8	51.8	24.5
10.00	6.5	50.3	25.0
16.00	8.2	47.3	25.0
20.00	9.3	45.8	25.0
25.00	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.50	17.0	38.4	21.5
100.00	22.0	35.3	20.1

## Electrical Characteristics

Eland Part Number	Impedance ohms	Max Conductor DC Resistance at 20°C ohms/100m
A8NCAT5E25PRDG	100(+/-15)	10.55