

Cat 5E 25 Pair UTP LSZH Cable

Eland Product Group **A8N**



Application

This 25 pair LSZH backbone cable is suitable for 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD Audio, Multimedia and Telephone networks.

Technical Data

Conductor

Class 1 solid plain copper

Insulation

SPE (Solid Polyethylene)

Filler

PE (Polyethylene) dummy core

Separator

Mylar tape

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

Grey

Temperature Rating

Installation: -20°C to +60°C

Operating: -20°C to +60°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.

Dimensions

Eland Part Number	No. of Pairs	Nominal Diameter of Conductor mm	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A8NCAT5E25PRLS	25	0.51	0.91	12.0	194

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
A8NCAT5E25PRLS	100(+/-15)	10.55

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.