

# Cat 5E UTP LSZH Cable

Eland Product Group **A8N****Application**

A multipair (usually 4 pair) high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 5E is recommended for all new installations, supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

**Standards**

ISO/IEC 11801, TIA/EIA 568B

**Conductor**

Class 1 solid plain copper

**Insulation**

HDPE (High Density Polyethylene)

**Sheath**

LSZH (Low Smoke Zero Halogen)

**Colour**

Purple

**Temperature Rating**

70°C

**Minimum Bending Radius**

90°

**Core Identification**

4 Pairs: Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown

**Dimensions****Physical**

Eland Part Number	No. of Pairs (24 AWG)	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/305m box
A8NFORCE5EUTPLS	4	0.88	5.00	11

**Performance Characteristics**

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	Delay ns
1.00	2.0	65.3	62.3	20.0	64.0	61.0	570.00
4.00	4.1	56.3	53.3	23.0	52.0	49.0	552.00
8.00	5.8	51.8	48.8	24.5	45.9	42.9	546.73
10.00	6.5	50.3	47.3	25.0	44.0	41.0	545.38
16.00	8.2	47.2	44.4	25.0	39.9	36.9	543.00
20.00	9.3	45.8	42.8	25.0	38.0	35.0	542.05
25.00	10.4	44.3	41.3	24.3	35.8	33.0	541.20
31.25	11.7	42.9	39.9	23.6	34.1	31.1	540.44
62.50	17.0	38.4	35.4	21.5	28.1	25.1	538.55
100.00	22.0	35.3	32.3	20.1	24.0	21.0	537.60

**Electrical Characteristics**

Eland Part Number	Impedance ohms	Max Conductor Resistance ohms/Km	Maximum Resistance Unbalance % max
A8NCAT5EUTP	100±15	93.8	2.5

