

Cat 6 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 6 is recommended for all new installations, supports a frequency range of up to 250MHz 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)

Sheath 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 (23 AWG)	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/305m box
A8NFORCE6LSZH	4	1.035	6.2	16

Performance Characteristics

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	Delay ns
1.00	1.9	74.0	72.3	20.0	68.0	65.0	570.00
4.00	3.7	65.0	63.3	23.0	56.0	53.0	552.00
8.00	5.3	60.7	48.8	24.5	49.9	46.9	546.73
10.00	5.9	59.0	57.3	25.0	48.0	45.0	545.38
16.00	7.5	56.0	54.2	25.0	43.9	40.9	543.00
20.00	8.4	55.0	52.6	25.0	42.0	39.0	542.05
25.00	9.5	53.3	41.3	24.3	40.0	37.0	541.20
31.25	10.6	52.0	49.9	23.6	38.1	35.1	540.44
62.50	15.4	47.0	45.4	21.5	32.1	29.1	538.55
100.00	19.8	44.0	42.3	20.1	28.0	25.0	537.60
200.00	29.0	40.0	37.8	18.0	22.0	19.0	536.54
250.00	32.8	38.0	36.3	17.3	20.0	17.0	536.27

Electrical Characteristics

Eland Part Number	Impedance ohms	Max Conductor Resistance ohms/Km	Maximum Resistance Unbalance % max
A8NFORCE6LSZH	100±15	93.8	2.5

