

Cat 5E FTP PE 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, YD/T1019-2001

Technical Data

Conductor

Class 1 solid plain copper

Sheath Colour

Black

Insulation

HDPE (High Density Polyethylene)

Temperature Rating

70°C

Drain Wire

Tinned copper

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexing: 8 x overall diameter

Screen

Al-Foil (Aluminium Foil)

Core Identification

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

Sheath

LDPE (Low Density Polyethylene)

Dimensions

Eland Part Number	No. of Pairs (24 AWG)	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm
A8NFORCE5EFTPPE	4	1.03	6.30

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 DC Conductor Resistance at 20°C ohms/Km	DC Conductor Resistance Unbalance % max
A8NFORCE5EFTPPE	100±15	9.5	5.0

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.