

Cat 5E PE F/UTP GSWB LSZH Cable



Eland Product Group: **A8N**

APPLICATION

This cable is used for horizontal wiring in a local area network (LAN) in areas requiring mechanical protection. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

Solid PE (Polyethylene)

Drain Wire

Tinned copper

Screen

AL-Foil (Aluminium Foil)

Bedding

LSZH (Low Smoke Zero Halogen)

Braiding

GSWB (Galvanised Steel Wire Braid)

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

ISO/IEC 11801, TIA/EIA 568B



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Temperature Rating

Fixed: 0°C to +70°C

Minimum Bending Radius

Fixed: 6 x overall diameter

Core Identification

Pair 1: ● Blue ● White/Blue

Pair 2: ● Orange ● White/Orange

Pair 3: ● Green ● White/Green

Pair 4: ● Brown ● White/Brown

Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS (24 AWG)	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8NCAT5EFTPGSWB	4	1.04	9.4	124

PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	ACR dB
1	2	65.3	23.1	63.8	60.8	63
4	4.1	56.3	23	51.7	48.7	51
8	5.8	51.8	24.5	45.7	42.7	45
10	6.5	50.3	25	43.8	40.8	43
16	8.2	47.3	25	39.7	36.7	37
20	9.3	45.8	25	37.7	34.7	35
25	10.23	44.3	24.2	35.8	32.8	32
31.25	11.71	42.9	23.3	33.9	30.9	29
62.5	17.25	38.4	20.7	27.8	24.8	19
100	22	35.3	19.24	23.8	20.8	9

ELECTRICAL CHARACTERISTICS

ELAND PART NO.	IMPEDANCE (1 - 100MHz) ohms	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
A8NCAT5EFTP GSWB	100±15	101.2