

# Cat 7 S/FTP 4 Pair LSZH Cable



Eland Product Group: **A8N**

## APPLICATION

Data cable for high bandwidth, high speed applications. 10 Gigabit Ethernet over 100m. Individual and overall screening to meet strict Crosstalk requirements. Backwards compatible with Cat 5e and Cat 6.

## CABLE STANDARDS

ISO/IEC 61156-5, EN 50288-4, YD/T1019, IEC60332-3C



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.

## CONSTRUCTION

### Conductor

Bare copper conductor

### Insulation

Foam-skin Polyethylene (PE)

### Individual Screen

Aluminium/Mylar Tape

### Drain Wire

### Outer Screen

Tinned copper wire braid (TCWB)

### Rip Cord

### Sheath

Low Smoke Zero Halogen (LSZH)

## CHARACTERISTICS

### Temperature Rating

-20 to +70 °C

### Core Identification

Pair 1: ● Blue, ● White/Blue

Pair 2: ● Orange, ● White/Orange

Pair 3: ● Green, ● White/Green

Pair 4: ● Brown, ● White/Brown

## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS (23 AWG)	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/305m
A8NFORCE7LSZH	4	1.330±0.05	7.5±0.5	19

## ELECTRICAL CHARACTERISTICS

IMPEDANCE ohms			MAXIMUM DC RESISTANCE ohms/100m	MAXIMUM DC CONDUCTOR RESISTANCE %	VELOCITY OF PROPAGATION %
1-100MHz	100-250MHz	250-600MHz			
100±15	100±18	100±25	9.5	2.0	74

## TECHNICAL PERFORMANCE

FREQUENCY MHz	RETURN LOSS (RL) ≥dB	ATTENUATION (ATT) ≤dB	NEAR END CROSSTALK (NEXT) ≥dB	PHASE DELAY ≤ns	POWER SUM NEAR END CROSSTALK (PS NEXT) ≥dB	EQUAL LEVEL FAR END CROSSTALK (ELFEXT) ≥dB	POWER SUM EQUAL LEVEL FAR END CROSSTALK (PSELFEXT) ≥dB
1.0	20.0	-	78.0	570.0	75.0	78.0	75.0
4.0	23.0	3.74	78.0	552.0	75.0	78.0	75.0
8.0	24.5	5.24	78.0	546.7	75.0	75.9	72.9
10.0	25.0	5.86	78.0	545.4	75.0	74.0	71.0
16.0	25.0	7.41	78.0	543.0	75.0	69.9	66.9
20.0	25.0	8.29	78.0	542.0	75.0	68.0	65.0
25.0	24.3	9.29	78.0	541.2	75.0	66.0	63.0
31.25	23.6	10.41	78.0	540.4	75.0	64.1	61.1
62.5	21.5	14.88	75.5	538.6	72.5	58.1	55.1
100	20.1	19.02	72.4	537.6	69.4	54.0	51.0
150	18.9	23.56	69.8	536.9	66.8	50.2	47.2
200	18.0	27.47	67.9	536.5	64.9	48.0	45.0
250	17.3	30.97	66.4	536.3	63.4	46.0	43.0
300	17.3	34.19	65.2	536.1	62.2	44.5	41.5
600	17.3	50.10	60.7	535.5	57.7	38.4	35.4