ELAND® CABLES

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.

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)

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.

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

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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

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The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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