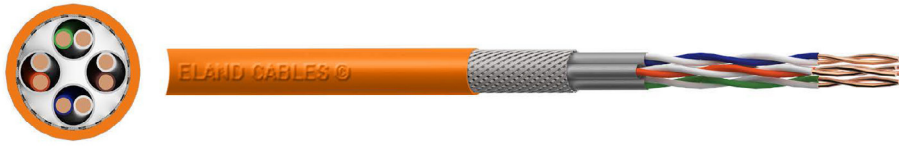




Cat 7 S/FTP 4 Pair LSZH Cable



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.

CHARACTERISTICS

Temperature Rating
-20 to +70 °C

Minimum Bending Radius
Fixed: 4 x overall diameter
Flexed: 8 x overall diameter

CONSTRUCTION

Conductor
Bare copper conductor

Insulation
Foam-skin Polyethylene (PE)

Individual Screen
Aluminium/Mylar Tape

Drain Wire
Tinned copper

Outer Screen
Tinned copper wire braid (TCWB)

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
Pair 1: ● Blue ● White/Blue
Pair 2: ● Orange ● White/Orange
Pair 3: ● Green ● White/Green
Pair 4: ● Brown ● White/Brown

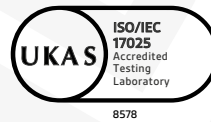
STANDARDS

ISO/ IEC 61156-5, EN 50288-4, TD/T1019

Flame Retardant according to BS EN/IEC 60332-3-24

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS	AWG	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/305m
A8NFORCE7LSZH	4	23	1.33	7.5	19

PERFORMANCE CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS

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

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.