

Cat 6A U/FTP LSZH Cable



Eland Product Group: A8N

APPLICATION

A very high performance data cable designed for transmission speeds of up to 10GB per second. These cables allow the use of protocols supported by class EA for the implementation of 10G Base-T. Cat 6A cables support frequency ranges up to 500MHz compatible with PoE & PoE+. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CHARACTERISTICS

Temperature Rating

Fixed: -20°C to +60°C

Minimum Bending Radius

Fixed: 4 x overall diameter Flexed: 8 x overall diameter

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

HDPE (High Density Polyethylene)

Screen

AI/PET (Aluminium/Polyester tape)

Drain Wire

Tinned copper wire of 26AWG

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

Sheath Colour

Blue

STANDARDS

TiA/EIA 568-B.10, IEC 61158-5

Flame Retardant according to BS EN/IEC 60332-1-2



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.

ISO 45001



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 DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT kg/km
A8NFORCE6ALS	4	23	1.33	7.3	48

PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY
1	2.1	74.3	72.3	20	68	65	570
4	3.8	65.3	63.3	23	56	53	552
8	5.3	60.8	58.8	24.5	49.9	46.9	546.7
10	5.9	59.3	57.3	25	48	45	545.4
16	7.5	56.2	54.2	25	43.9	40.9	543
20	8.4	54.8	52.8	25	42	39	542.1
25	9.4	53.3	51.3	24.3	40	37	541.2
31.25	10.5	51.9	49.9	23.6	38.1	35.1	540.4
62.5	15	47.4	45.4	21.5	32.1	29.1	538.6
100	19.1	44.3	42.3	20.1	28	25	537.6
200	27.6	39.8	37.8	18	22	19	536.5
250	31.1	38.3	36.3	17.3	20	17	536.3
300	34.3	37.1	35.1	16.8	18.5	15.5	536.1
500	45.3	33.8	31.8	15.2	14	11	535.6

ELECTRICAL CHARACTERISTICS

DELAY	VELOCITY	MAXIMUM UNBALANCED-	MAXIMUM	MAXIMUM DC CONDUCTOR
SHEW	OF PROPAGATION	TO-GROUND CAPACITANCE	DC RESISTANCE	RESISTANCE UNBALANCE
ns/100m	%	pf/100m	ohms/100m	%
≤ 45	68	330	9.38	2

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.