

# Belden 10Gx24 Cat 6A U/UTP LSZH Cable



Eland Product Group: A8N

## APPLICATION

A very high performance data cable designed for transmission 10GB ETHERNET. Premises horizontal cable, 100Base TX, 100Base VG ANYLAN, 155 ATM, NTSC/PAL component or composite video, AES/EBU Digital AUDIO, AES5, RS-422, noisy environment POE.

## CHARACTERISTICS

### Temperature Rating

Fixed: -20°C to +75°C

Installation: +5°C to +50°C

### Minimum Bending Radius

7 x overall diameter

## CONSTRUCTION

### Conductor

Class 1 solid copper

### Insulation

Polyolefin

### Double -H sprine

### Rip cord

### Sheath

LSZH (Low Smoke Zero Halogen)

### Core Identification

Pair 1: ● Blue ○ White

Pair 2: ● Orange ○ White

Pair 3: ● Green ○ White

Pair 4: ● Brown ○ White

### Sheath Colour

● Light Blue

## STANDARDS

Cat A TIA/EIA 568-C2, ISO / IEC 11801,  
BS EN IEC 60754-1/2

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.



## 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 mm	NOMINAL WEIGHT kg/km
ZZ000036083	4	23	1.33	7.5	59.5

## PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	MAXIMUM ATTENUATION dB/100m	MINIMUM PS-NEXT dB	MINIMUM PSACR dB	MIN RL dB
1	2100	73.3	71.2	20000
4	3800	64.3	60.5	23000
8	5300	59.8	54.4	24500
10	5900	58.3	52.4	25000
16	7500	55.2	47.8	25000
20	8400	53.8	45.4	25000
25	9400	52.3	43	24300
31.25	10500	50.9	40.4	23600
62.5	15000	46.4	31.4	21500
100	19100	43.3	24.2	20100
200	27600	38.8	11.2	18000
250	31100	37.3	6.3	17300
300	34300	36.1	1.9	16800
350	37200	35.1	-	16300
400	40100	34.3	-	15900
450	42700	35.5	-	15500
500	45300	32.8	-	15200
550	47700	32.2	-	14900
600	50100	31.6	-	14700
625	51200	31.4	-	14500
750	56700	30.2	-	14000
860	61200	29.3	-	13600

## ELECTRICAL CHARACTERISTICS

MAXIMUM DELAY SHEW AT 100MHz	DELAY SHEW ns/100m	VELOCITY OF PROPAGATION %	NOMINAL MUTUAL CAPACITANCE pf/100m	MAXIMUM CAPACITANCE UNBALANCED pF/100m	MAXIMUM DC RESISTANCE ohms/100m	MAXIMUM DC CONDUCTOR RESISTANCE UNBALANCE %	MAXIMUM OPERATING VOLTAGE V RMS
537	≤ 45	64	55.777	330	7.4	3	300

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.