ELAND® CABLES

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.

CONSTRUCTION

Conductor
Class 1 solid copper conductor

Insulation
Polyolefin

Double -H sprine
Rip cord

Sheath
LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

Cat 6A TIA/EIA 568-C2, IEC 60332-1,60754-1, 60754-2, 150/ IEC 11801 ed Class EA

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
Fixed: -20°C to +75°C
Installation: +5°C to +50°C

Minimum Bending Radius
50.8mm

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

Sheath Colour
● Light blue

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DIMENSIONS

ELAND PART NO.	NO. OF PAIRS (23 AWG)	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ZZ000036083	4	1.33	7.5	59.5

PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	MAX. ATTENUATION dB/100m	MIN. PS-NEXT dB	MIN. 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 AT 20°C

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

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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.

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com