



**Part Number:** 10GX24  
**CAT6A 10GX, 4pr, UTP, LSZH Jkt**

## Product Description

CAT6A (625MHz), 4-Pair, U/UTP-unshielded, Zero Halogen, Premise Horizontal cable, 23 AWG solid bare copper conductors, polyolefin insulation, patented Double-H spline, ripcord, LSZH jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Premise Horizontal Cable, 10 Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments, PoE
------------------------	--

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Conductor Count:	8
Total Number of Pairs:	4

#### Insulation

Material	
PO - Polyolefin	
Bonded-Pair:	N/A

#### Color Chart

Number	Color
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen	Haloarrest®	0.295 in	Yes

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance	Max DCR Unbalanced Between Pairs [%]
74 Ohm/km	3 %	5 %

#### Capacitance

Max. Capacitance Unbalance	Nom. Mutual Capacitance
330 pF/100m	17 pF/ft

#### Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	45 ns/100m	64 %

## High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. PSANEXT	Min. PSAACRF	Min. TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.1 dB/100m	73.3 dB	71.2 dB	68.8 dB	20.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	67.0 dB	67.0 dB	40.0 dB	35.0 dB
4 MHz	3.8 dB/100m	64.3 dB	60.5 dB	56.8 dB	23.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	67.0 dB	40.0 dB	23.0 dB
8 MHz	5.3 dB/100m	59.8 dB	54.4 dB	50.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	61.1 dB	40.0 dB	16.9 dB
10 MHz	5.9 dB/100m	58.3 dB	52.4 dB	48.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	59.2 dB	40.0 dB	15.0 dB
16 MHz	7.5 dB/100m	55.2 dB	47.8 dB	44.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	55.1 dB	40.0 dB	10.9 dB
20 MHz	8.4 dB/100m	53.8 dB	45.4 dB	42.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	53.2 dB	38.0 dB	9.0 dB
25 MHz	9.4 dB/100m	52.3 dB	43.0 dB	40.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	51.2 dB	36.0 dB	7.0 dB
31.25 MHz	10.5 dB/100m	50.9 dB	40.4 dB	38.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 10 Ohm	67.0 dB	49.3 dB	35.1 dB	
62.5 MHz	15.0 dB/100m	46.4 dB	31.4 dB	32.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 10 Ohm	66.6 dB	43.3 dB	32.0 dB	
100 MHz	19.1 dB/100m	43.3 dB	24.2 dB	28.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 10 Ohm	63.5 dB	39.2 dB	30.0 dB	
200 MHz	27.6 dB/100m	38.8 dB	11.2 dB	22.8 dB	18.0 dB	100 ± 22 Ohm	100 ± 10 Ohm	59.0 dB	33.2 dB	27.0 dB	
250 MHz	31.1 dB/100m	37.3 dB	6.3 dB	20.8 dB	17.3 dB	100 ± 32 Ohm	100 ± 10 Ohm	57.5 dB	31.2 dB	26.0 dB	
300 MHz	34.3 dB/100m	36.1 dB	1.9 dB	19.3 dB	16.8 dB	100 ± 32 Ohm	100 ± 10 Ohm	56.3 dB	29.7 dB	25.2 dB	
350 MHz	37.2 dB/100m	35.1 dB		17.9 dB	16.3 dB	100 ± 32 Ohm	100 ± 10 Ohm	55.3 dB	28.3 dB	24.6 dB	
400 MHz	40.1 dB/100m	34.3 dB		16.8 dB	15.9 dB	100 ± 32 Ohm	100 ± 10 Ohm	54.5 dB	27.2 dB	24.0 dB	
450 MHz	42.7 dB/100m	33.5 dB		15.7 dB	15.5 dB	100 ± 32 Ohm	100 ± 10 Ohm	53.7 dB	26.1 dB	23.5 dB	
500 MHz	45.3 dB/100m	32.8 dB		14.8 dB	15.2 dB	100 ± 32 Ohm	100 ± 10 Ohm	53.0 dB	25.2 dB	23.0 dB	
550 MHz	47.7 dB/100m	32.2 dB		14.0 dB	14.9 dB	100 ± 32 Ohm	100 ± 10 Ohm	52.4 dB	24.4 dB		
600 MHz	50.1 dB/100m	31.6 dB		13.2 dB	14.7 dB	100 ± 32 Ohm	100 ± 10 Ohm	51.8 dB	23.6 dB		
625 MHz	51.2 dB/100m	31.4 dB		12.9 dB	14.5 dB	100 ± 32 Ohm	100 ± 10 Ohm	51.6 dB	23.3 dB		
750 MHz	56.7 dB/100m	30.2 dB		11.3 dB	14.0 dB			50.4 dB	21.7 dB		
860 MHz	61.2 dB/100m	29.3 dB		10.1 dB	13.6 dB			49.5 dB	20.5 dB		

Segregation class according EN50174-2:

a

## Voltage

UL Voltage Rating

300 V RMS

## Temperature Range

Installation Temp Range:	+5°C To +50°C
Non-UL Temp Rating:	+75°C
Storage Temp Range:	-20°C To +75°C
Operating Temp Range:	-20°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight:	35 lbs/1000ft
Max Recommended Pulling Tension:	25 lbs
Min Bend Radius During Installation:	3.0 in
Min Bend Radius/Minor Axis:	1.25 in

## Standards

NEC/(UL) Specification:	N/A
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class EA
CPR Euroclass:	Eca
Data Category:	Category 6A
ANSI Compliance:	S-116-732-2013 Category 6A, ANSI/NEMA WC-66 Category 6A
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 6A
IEEE Specification:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Other Specification:	Verified Channel/Category 6A

## Applicable Environmental and Other Programs

Environmental Space:	LSZH
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes

EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	No
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
EU RoHS Compliance Date (yyyy-mm-dd):	2009-06-11
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Oil Resistance:	No
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

## Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	10GX13

## Part Number

Non-Plenum Number:	10GX12
--------------------	--------

## Variants

Item #	Color	UPC	Length
10GX24.10305	Black		305 m
10GX24.06305	Blue		305 m
10GX24 0061000	Blue	612825061854	1,000 ft
10GX24.K6305	Blue		305 m
10GX24.08305	Gray		305 m
10GX24.K8305	Gray		305 m
10GX24.08500	Gray		500 m
10GX24.K5305	Green		305 m
10GX24.071000	Purple		1,000 m
10GX24.07305	Purple		305 m
10GX24 0071000	Purple	612825061830	1,000 ft
10GX24.07500	Purple		500 m
10GX24.K7305	Purple		305 m
10GX24.K71000	Purple		1,000 m
10GX24.09305	White		305 m
10GX24 0091000	White	612825061847	1,000 ft
10GX24.09500	White		500 m
10GX24.04305	Yellow		305 m
10GX24 0041000	Yellow	612825061861	1,000 ft
10GX24.K4305	Yellow		305 m
10GX24.041525	Yellow		1,525 m

Patent:	<a href="https://www.belden.com/resources/patents">https://www.belden.com/resources/patents</a>
---------	---

## Product Notes

Notes:	Values above 625 MHz are for Engineering Information Only. 0.295" Cable Dimension per TIA 6@1 Equivalent Diameter. Print Includes Descending Footage/Meter Markings from Max. Put-Up Length to 0.
--------	---

## History

Update and Revision:	Revision Number: 0.380 Revision Date: 08-22-2019
----------------------	--

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Multi-Conductor Cables](#) category:*

*Click to view products by [Belden](#) manufacturer:*

Other Similar products are found below :

[01342.35T.01](#) [CS2885-000](#) [CTC-0062-20-9/5-9](#) [644833-000](#) [6500FE-877-1000](#) [CW9530-000](#) [CX6543-000](#) [CXA-0066-20-4-9CS2973](#) [CXA-0078-16-1-9CS2405](#) [CY0660-000](#) [730859-000](#) [MCC-USB-4-250](#) [768146-000](#) [773159-000](#) [820457-000](#) [82907-NAT-500](#) [83005-WHT-500](#) [83023-YEL-500](#) [83027-RED-100](#) [83029-GRN-100](#) [8302-CHR-500](#) [83046-RED-100](#) [8305-CHR-100](#) [83306E-WHT-100](#) [83333-WHT-100](#) [8334-060-1000](#) [83349E-WHT-100](#) [83652-RED-100](#) [8404-060-500](#) [8441-BLK-1000](#) [8450-BLK-1000](#) [8451-GRY-U500](#) [8459-CHR-500](#) [8465-CHR-1000](#) [8466-CHR-1000](#) [8467-CHR-1000](#) [8469 060100](#) [8469-CHR-1000](#) [8471-CHR-1000](#) [8472-BLK-250](#) [8501-ORG-100](#) [8501-RED-100](#) [8503-WHT/BLU-100](#) [8520-BRN-100](#) [8520-GRY-100](#) [8523-GRY-100](#) [8523-GRY-1000](#) [8523-LT-BLU-25](#) [8523-ORG-1000](#) [8524-DK-BLU-100](#)