



Product: [Giga LAN 10 Category 6A CMP](#)

GigaLAN 10 Small Diameter Cable, 4 Pair, #23 AWG UTP, Category 6A, CMP

Product Description

Unshielded Twisted Pair (UTP) GigaLAN 10 Small Diameter Cable for Use In Horizontal Cabling Systems per ANSI/TIA568-C AND ISO/IEC 11801 ed 2.2 (2011) Class EA. The Cable Exceeds ANSI/TIA-568-C.2 AND ISO/IEC 11801 ed 2.2 (2011) Category 6A Electrical Characteristics. This Patented Cable Consists of #23 AWG Solid Bare Copper Insulated Conductors, Assembled into Four Tightly Twisted Pairs, Utilizing a FlexWeb Core Separator, Alien Crosstalk Barrier and Ripcord, Under a Jacket. Print Includes Descending Footage Markers from 1000 to 0 on Each 1000 FT Reel.

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
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

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

Insulation

Material	Color Code
FEP - Fluorinated Ethylene Propylene	White & Blue, White & Orange, White & Green, White & Brown

Outer Jacket

Separator	Material	Nom. Diameter	Ripcord
Flexweb® Core Separator, Alien Crosstalk Barrier	PVC - Polyvinyl Chloride	0.250 in (6.35 mm)	Yes

Overall Cable Diameter (Nominal):	0.250 in (6.35 mm)
-----------------------------------	--------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
82 Ohm/ Ohm/km	45 pF/100m

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
537.6 ns/100m	45 ns/100m	69%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. PSANEXT [dB]	Min. PSAACRF [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.1	74.3	72.3	72.2	70.2	67.8	64.8	20.0	100 ± 15 Ohm	105 ± 10 Ohm	67.0	67.0	40.0	35.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	100 ± 15 Ohm	105 ± 10 Ohm	67.0	66.2	40.0	23.0
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5	100 ± 15 Ohm	105 ± 10 Ohm	67.0	60.1	40.0	16.9
10	5.9	59.3	57.3	53.4	51.4	47.8	44.8	25.0	100 ± 15 Ohm	105 ± 10 Ohm	67.0	58.2	40.0	15.0
16	7.5	56.2	54.2	48.8	46.8	43.7	40.7	25.0	100 ± 15 Ohm	105 ± 10 Ohm	67.0	54.1	38.0	10.9
20	8.4	54.8	52.8	46.4	44.4	41.8	38.8	25.0	100 ± 15 Ohm	105 ± 10 Ohm	67.0	52.2	37.0	9.0

25	9.4	53.3	51.3	44.0	42.0	39.8	36.8	24.3	100 ± 15 Ohm	105 ± 10 Ohm	67.0	50.2	36.0	7.0
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	23.6	100 ± 15 Ohm	105 ± 10 Ohm	67.0	48.3	35.1	5.1
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.9	21.5	100 ± 15 Ohm	105 ± 10 Ohm	65.6	42.3	32.0	
100	19.1	44.3	42.3	25.2	23.2	27.8	24.8	20.1	100 ± 15 Ohm	100 ± 10 Ohm	62.5	38.2	30.0	
200	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0	100 ± 22 Ohm	100 ± 10 Ohm	58.0	32.2	27.0	
250	31.1	38.3	36.3	7.3	5.3	19.8	16.8	17.3	100 ± 32 Ohm	100 ± 10 Ohm	56.5	30.2	26.0	
300	34.3	37.1	35.1	2.9	0.9	18.3	15.3	16.8	100 ± 32 Ohm	100 ± 10 Ohm	55.3	28.7	25.2	
350	37.2	36.1	34.1			16.9	13.9	16.3	100 ± 32 Ohm	100 ± 10 Ohm	54.3	27.3	24.6	
400	40.1	35.3	33.3			15.8	12.8	15.9	100 ± 32 Ohm	100 ± 10 Ohm	53.5	262	24.0	
450	42.7	34.5	32.5			14.7	11.7	15.5	100 ± 32 Ohm	100 ± 10 Ohm	52.7	25.1	23.5	
500	45.3	33.8	31.8			13.8	10.8	15.2	100 ± 32 Ohm	100 ± 10 Ohm	52.0	24.2	23.0	

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
105°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

Bend Radius

Stationary Min.
1 in (25 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	34 lbs/1000ft (51 kg/km)

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262 Plenum (UL 910), FT6
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMP, CMP-LP (0.5A), CL3P-LP (0.5A)
CEC / C(UL) Compliance:	CMP
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6A
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6A
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	Giga LAN 10 Category 6A CMR

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.
--------	--

History

Update and Revision:	Revision Number: 0.46 Revision Date: 07-14-2026
----------------------	---

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
M59234	Black	Reel	1,000 ft	799936148367
M59235	Blue	Reel	1,000 ft	799936148374
M59235RB	Blue		1,000 ft	612825490319
M59232	Gray	Reel	1,000 ft	799936148343
M59231	Green, Dark	Reel	1,000 ft	799936148336
M59231RB	Green, Dark		1,000 ft	799936148527
M59229	Orange	Reel	1,000 ft	799936148312
M59236	Pink	Reel		
M59228RB	Red			799936148855

M59245RB	Violet		1,000 ft	799936148794
M59233RB	White			799936148541
M59233	White	Reel	1,000 ft	799936148350
M59230	Yellow	Reel	1,000 ft	799936148329

© 2026 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.