

10GX32 Multi-Conductor - Enhanced Category 6A Bonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

23 AWG solid bare copper conductors, twisted pairs, see color code chart (below), Jacket (yellow, blue, gray, white, green, or black).

Usage (Overall)

Suitable Applications:

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments, 10G Category 6A

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors:

8

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

0.295 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 40 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 2 in.

Min. Bend/Installation: 3.100 in.

10GX32 Multi-Conductor - Enhanced Category 6A Bonded-Pair Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	12/09/2011
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6A - TIA 568.C.2
Other Specification:	Third Party Channel Verified to Category 6A

Applicable Patents:

Country	Patent
US	5606151
US	5734126
US	7772494
US	7838773
US	8030571

Flame Test

UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4
IEEE Flame Test:	1202

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No - Indoor

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	10GX33

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
17.000

Maximum Capacitance Unbalance (pF/100 m):	330
---	-----

Nominal Velocity of Propagation:

VP (%)
64.000

Maximum Delay:

Delay (ns/100 m)

10GX32 Multi-Conductor - Enhanced Category 6A Bonded-Pair Cable

538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
30.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
7.500

Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
2.000

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.100	75.3	73.3	73.2	71.2	20.000
4	3.800	66.3	64.3	62.5	60.5	23.000
8	5.300	61.8	59.8	56.4	54.4	24.500
10	5.900	60.3	58.3	54.4	52.4	25.000
16	7.500	57.2	55.2	49.8	47.8	25.000
20	8.400	55.8	53.8	47.4	45.4	25.000
25	9.400	54.3	52.3	45.0	43.0	25.000
31.25	10.500	52.9	50.9	42.4	40.4	25.000
62.5	15.000	48.4	46.4	33.4	31.4	25.000
100	19.100	45.3	43.3	26.2	24.2	25.000
200	27.600	40.8	38.8	13.2	11.2	21.000
250	31.100	39.3	37.3	8.3	6.3	20.500
300	34.300	38.1	36.1	3.9	1.9	20.100
350	37.200	37.1	35.1	N/A	N/A	19.800
400	40.100	36.3	34.3	N/A	N/A	19.500
450	42.700	35.5	33.5	N/A	N/A	18.900
500	45.300	34.8	32.8	N/A	N/A	18.400
550	47.700	34.2	32.2	N/A	N/A	18.000
600	50.100	33.6	31.6	N/A	N/A	17.600
625	51.200	33.4	31.4	N/A	N/A	17.400
750	56.700	32.2	30.2	N/A	N/A	16.500
860	61.200	31.3	29.3	N/A	N/A	15.800

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	100 ± 15	70.8	68.8
4	100 ± 15	100 ± 10.4	58.8	56.8
8	100 ± 15	100 ± 8	52.7	50.7
10	100 ± 15	100 ± 7.3	50.8	48.8
16	100 ± 15	100 ± 5	46.7	44.7
20	100 ± 15	100 ± 5	44.8	42.8
25	100 ± 15	100 ± 5	42.8	40.8
31.25	100 ± 15	100 ± 5	40.9	38.9
62.5	100 ± 15	100 ± 5	34.9	32.9
100	100 ± 15	100 ± 5	30.8	28.8
200	100 ± 22	100 ± 5	24.8	22.8
250	100 ± 32	100 ± 5	22.8	20.8
300	100 ± 32	100 ± 5	21.3	19.3
350	100 ± 32	100 ± 5	19.9	17.9
400	100 ± 32	100 ± 5	18.8	16.8
450	100 ± 32	100 ± 5	17.7	15.7
500	100 ± 32	100 ± 5	16.8	14.8

10GX32 Multi-Conductor - Enhanced Category 6A Bonded-Pair Cable

550	100 ± 32	100 ± 5	16.0	14.0
600	100 ± 32	100 ± 5	15.2	13.2
625	100 ± 32	100 ± 5	14.9	12.9
750			13.3	11.3
860			12.1	10.1

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. PSANEXT (dB)	Min. PSAACRF (dB)	Min. TCL (dB)	Min. ELTCTL (dB)
1.000	67.000	67.000	48.000	43.000
4.000	67.000	67.000	48.000	41.000
8.000	67.000	61.100	48.000	24.900
10.000	67.000	59.200	48.000	23.000
16.000	67.000	55.100	46.000	18.900
20.000	67.000	53.200	45.000	17.000
25.000	67.000	51.200	44.000	15.000
31.250	67.000	49.300	43.100	
62.500	66.600	43.300	40.000	
100.000	63.500	39.200	38.000	
200.000	59.000	33.200	35.000	
250.000	57.500	31.200	34.000	
300.000	56.300	29.700	33.200	
350.000	55.300	28.300	32.600	
400.000	54.500	27.200	32.000	
450.000	53.700	26.100	31.500	
500.000	53.000	25.200	31.000	
550.000	52.400	24.400		
600.000	51.800	23.600		
625.000	51.600	23.300		
750.000	50.400	21.700		
860.000	49.500	20.500		

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party channel verified to TIA/EIA-568-C.2, Category 6A. 0.295" cable dimension per TIA 6@1 equivalent diameter.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
10GX32 0041000	1,000 FT	40.000 LB	YELLOW	C	CAT6A 4PRB U/UTP CMR REEL
10GX32 0061000	1,000 FT	40.000 LB	BLUE, LIGHT	C	CAT6A 4PRB U/UTP CMR REEL
10GX32 0081000	1,000 FT	40.000 LB	GRAY	C	CAT6A 4PRB U/UTP CMR REEL
10GX32 0091000	1,000 FT	40.000 LB	WHITE	C	CAT6A 4PRB U/UTP CMR REEL

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-28-2012

© 2012 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

10GX32 Multi-Conductor - Enhanced Category 6A Bonded-Pair Cable

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.