



Product: [10GX13](#)

10GX Category 6A Enhanced Cable, 4 Pair, U/UTP, CMP

Product Description

10GX Category 6A Enhanced Premise Horizontal Cable (625MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Plenum-CMP, Flamarrest® PVC-LS Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet up to 10GBASE-T, HDBaseT, PoE++, PoE+, PoE
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

Size	Stranding	Material	Number of Pairs
23 AWG	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	Material Trade Name	Nom. Diameter	Ripcord
Double H Cross-Web (Patented RoundFlex®)	PVC - Polyvinyl Chloride	Flamarrest®	0.295 in (7.49 mm)	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
74 Ohm/km	50 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.	Typical Delay Skew
100 MHz	537.6 ns/100m	45 ns/100m	68%	35 ns/100m

High Frequency

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 [dB]	Min. PSAACRF [dB]	Min. TCL [dB]	Min. ELTCL [dB]
1	2.1 dB/100m	73.3	71.2	68.8	20.0	100 ± 15 Ohm	100 ± 15 Ohm	67.0	67.0	40.0	35.0
4	3.8 dB/100m	64.3	60.5	56.8	23.0	100 ± 15 Ohm	100 ± 10 Ohm	67.0	67.0	40.0	23.0
8	5.3 dB/100m	59.8	54.4	50.7	24.5	100 ± 15 Ohm	100 ± 10 Ohm	67.0	61.1	40.0	16.9
10	5.9 dB/100m	58.3	52.4	48.8	25.0	100 ± 15 Ohm	100 ± 10 Ohm	67.0	59.2	40.0	15.0
16	7.5 dB/100m	55.2	47.8	44.7	25.0	100 ± 15 Ohm	100 ± 10 Ohm	67.0	55.1	40.0	10.9
20	8.4 dB/100m	53.8	45.4	42.8	25.0	100 ± 15 Ohm	100 ± 10 Ohm	67.0	53.2	38.0	9.0
25	9.4 dB/100m	52.3	43.0	40.8	24.3	100 ± 15 Ohm	100 ± 10 Ohm	67.0	51.2	36.0	7.0
31.25	10.5 dB/100m	50.9	40.4	38.9	23.6	100 ± 15 Ohm	100 ± 10 Ohm	67.0	49.3	35.1	
62.5	15.0 dB/100m	46.4	31.4	32.9	21.5	100 ± 15 Ohm	100 ± 10 Ohm	66.6	43.3	32.0	

100	19.1 dB/100m	43.3	24.2	28.8	20.1	100 ± 15 Ohm	100 ± 10 Ohm	63.5	39.2	30.0
200	27.6 dB/100m	38.8	11.2	22.8	18.0	100 ± 22 Ohm	100 ± 10 Ohm	59.0	33.2	27.0
250	31.1 dB/100m	37.3	6.3	20.8	17.3	100 ± 32 Ohm	100 ± 10 Ohm	57.5	31.2	26.0
300	34.3 dB/100m	36.1	1.9	19.3	16.8	100 ± 32 Ohm	100 ± 10 Ohm	56.3	29.7	25.2
350	37.2 dB/100m	35.1		17.9	16.3	100 ± 32 Ohm	100 ± 10 Ohm	55.3	28.3	24.6
400	40.1 dB/100m	34.3		16.8	15.9	100 ± 32 Ohm	100 ± 10 Ohm	54.5	27.2	24.0
450	42.7 dB/100m	35.5		15.7	15.5	100 ± 32 Ohm	100 ± 10 Ohm	53.7	26.1	23.5
500	45.3 dB/100m	32.8		14.8	15.2	100 ± 32 Ohm	100 ± 10 Ohm	53.0	25.2	23.0
550	47.7 dB/100m	32.2		14.0	14.9	100 ± 32 Ohm	100 ± 10 Ohm	52.4	24.4	
600	50.1 dB/100m	31.6		13.2	14.7	100 ± 32 Ohm	100 ± 10 Ohm	51.8	23.6	
625	51.2 dB/100m	31.4		12.9	14.5	100 ± 32 Ohm	100 ± 10 Ohm	51.6	23.3	
750	56.7 dB/100m	30.2		11.3	14.0			50.4	21.7	
860	61.2 dB/100m	29.3		10.1	13.6			49.5	20.5	

Voltage

UL Voltage Rating
300 V (CMP), 300 V (CL3P)

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.	Installation Min.
1.25 in (31.8 mm)	3.0 in (76 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	43 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP;CMP-LP (0.6A);CL3P-LP (0.6A)
CEC / C(UL) Compliance:	CMP
ICEA Compliance:	S-116-732-2013
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
NEMA Compliance:	ANSI/NEMA WC-66
Data Category:	Category 6A
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 6A
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
CENELEC Compliance:	Segregation class according EN50174-2 = a
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: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	Verified Channel/Category 6A
Non-Plenum Number:	10GX12

Product Notes

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

Update and Revision:	Revision Number: 0.489 Revision Date: 12-15-2021
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Variants

Item #	Color	Putup Type	Length	UPC
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10GX13 0101000	Black	Reel	1,000 ft	612825102274
10GX13 0101500	Black	Reel	1,500 ft	612825102281
10GX13 D151000	Blue	Reel	1,000 ft	612825102182
10GX13 D152500	Blue	Reel	2,500 ft	612825102199
10GX13 0081000	Gray	Reel	1,000 ft	612825102250
10GX13 0051000	Green	Reel	1,000 ft	612825102236
10GX13 0071000	Purple	Reel	1,000 ft	612825102243
10GX13 0091000	White	Reel	1,000 ft	612825102267
10GX13 0041000	Yellow	Reel	1,000 ft	612825102205
10GX13 0042500	Yellow	Reel	2,500 ft	612825102212
10GX13 0045000	Yellow	Reel	5,000 ft	612825102229

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