

10GX13 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

23 AWG solid bare copper conductors, FEP insulation, patented H-spline center member, ripcord, Flamarrest® jacket.

Usage (Overall)

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:

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

Insulation

Insulation Material:

Insulation Material
FEP - Fluorinated Ethylene Propylene

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Cabling Fillers: RoundFlex - Double H cross-web

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: -20°C To +60°C

Bulk Cable Weight: 38 lbs/1000 ft.

Max. Recommended Pulling Tension: 40.800 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

10GX13 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable

CEC/C(UL) Specification:	CMP
Other Standards:	Exceeds 11801:2002 Category 6
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):	01/01/2004
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.B.2-10

Flame Test

UL Flame Test:	UL910 Steiner Tunnel
CSA Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	10GX12

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

17.000

Nominal Velocity of Propagation:

VP (%)

64.000

Maximum Capacitance Unbalance (pF/100 m): 330

Maximum Delay:

Delay (ns/100 m)

537 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)

45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

7.400

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3.000

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.100	73.3	71.2	20.000
4	3.800	64.3	60.5	23.000
8	5.300	59.8	54.4	24.500
10	5.900	58.3	52.4	25.000
16	7.500	55.2	47.8	25.000

10GX13 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable

20	8.400	53.8	45.4	25.000
25	9.400	52.3	43	24.300
31.25	10.500	50.9	40.4	23.600
62.5	15.000	46.4	31.4	21.500
100	19.100	43.3	24.2	20.100
155	24.100	40.4	1.4	18.800
200	27.600	38.8	11.2	18.000
250	31.100	37.3	6.3	17.300
300	34.300	36.1	1.9	16.800
350	37.200	35.1		16.300
400	40.100	34.3		15.900
450	42.700	35.5		15.500
500	45.300	32.8		15.200
550	47.700	32.2		14.900
600	50.100	31.6		14.700
625	51.200	31.4		14.500
750	56.700	30.2		14.000
860	61.200	29.3		13.600

Notes (Overall)

Notes: Jacket sequentially printed with dual footage and meter markings. US Patents 5, 606, 151 & 5, 734, 126. Third party verified to TIA/EIA 568-B.2-1, Category 6.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
10GX13 D151000	1,000 FT	0.000	BLUE		4PR23 CMP (24817995H)
10GX13 D152500	2,500 FT	0.000	BLUE		4PR23 CMP (24817963H)
10GX13 0041000	1,000 FT	0.000	YELLOW		4PR23 CMP (24817795H)
10GX13 0042500	2,500 FT	0.000	YELLOW		4PR23 CMP (24817763H)
10GX13 0045000	5,000 FT	0.000	YELLOW		4PR23 CMP (24817777H)
10GX13 0051000	1,000 FT	0.000	GREEN, DARK		4PR23 CMP (24812895H)
10GX13 0071000	1,000 FT	0.000	VIOLET		4PR23 CMP (24812P95H)
10GX13 0081000	1,000 FT	0.000	GRAY		4PR23 CMP (24812195H)
10GX13 0091000	1,000 FT	0.000	WHITE		4PR23 CMP (24817395H)
10GX13 0101000	1,000 FT	0.000	BLACK		4PR23 CMP (24812495H)
10GX13 0101500	1,500 FT	0.000	BLACK		4PR23 CMP (24812454H)

Revision Number: 0 Revision Date: 03-16-2009

© 2008 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.

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