



10GXS13

Part Number: 10GXS13 0041000

Enhanced Category 6A Nonbonded-Pair Cable

Product Description

Category 6A Enhanced (625MHz), 4-Unbonded-Pair, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, FEP Insulation, Patented EquiSpline™ & EquiBlock™ Technologies, Ripcord, Flamarrest Jacket

Product Specifications

Technical Specifications

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

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4
Total Number of Conductors:		8	

Insulation:

Material
FEP - Fluorinated Ethylene Propylene

Color Chart 1:

Number	Color
--------	-------

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

Outerjacket 1:

Material	Material Trade Name	Nominal Diameter	Ripcord	Separator Material
PVC - Polyvinyl Chloride	Flamarrest®	0.265 in	Yes	Patented EquiSpline Central Member

Electrical Characteristics

Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance
7.5 Ohm/100m	3 %

Capacitance:

Nominal Mutual Capacitance
17 pF/ft

Delay:

Max. Delay Description	Max. Delay Skew	Nominal Velocity of Propagation (VP)	Typical Delay Skew
537 @ 100MHz	45 ns/100m	0.69 ns/100m	30 ns/100m

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT	Min. PSACR	Min. PSACRF (PSELFEXTL)	Min. RL (Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. PSANEXT	Min. PSAACRF	Min. TCL	Min. ELTCTL
1 MHz	2.1 db/100m	75.3 dB	73.2 dB	74.8 dB	20 dB	100 ± 15 Ohm	105 ± 10 Ohm	75 dB	77 dB	40 dB	35 dB
4 MHz	3.8 db/100m	66.3 dB	62.5 dB	62.8 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	76.2 dB	40 dB	23 dB
8 MHz	5.3 db/100m	61.8 dB	56.5 dB	56.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	70.1 dB	40 dB	16.9 dB
10 MHz	5.9 db/100m	60.3 dB	54.4 dB	54.8 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	68.2 dB	40 dB	15 dB
16 MHz	7.4 db/100m	57.2 dB	49.8 dB	50.7 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	64.1 dB	38 dB	10.9 dB

20 MHz	8.3 db/100m	55.8 dB	47.5 dB	48.8 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	62.2 dB	37 dB	9 dB
25 MHz	9.3 db/100m	54.3 dB	45 dB	46.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm	75 dB	60.2 dB	36 dB	7 dB
31.25 MHz	10.4 db/100m	52.9 dB	42.5 dB	44.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 10 Ohm	75 dB	58.3 dB	35.1 dB	5.1 dB
62.5 MHz	14.8 db/100m	48.4 dB	33.6 dB	38.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 10 Ohm	73.6 dB	52.3 dB	32 dB	
100 MHz	18.9 db/100m	45.3 dB	26.4 dB	34.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 10 Ohm	70.5 dB	48.2 dB	30 dB	
200 MHz	27.0 db/100m	40.8 dB	13.8 dB	28.8 dB	18 dB	100 ± 22 Ohm	100 ± 10 Ohm	66 dB	42.2 dB	27 dB	
250 MHz	30.4 db/100m	39.3 dB	9 dB	26.8 dB	17.3 dB	100 ± 32 Ohm	100 ± 10 Ohm	64.5 dB	40.2 dB	26 dB	
300 MHz	33.5 db/100m	38.1 dB	4.6 dB	25.3 dB	16.8 dB	100 ± 32 Ohm	100 ± 10 Ohm	63.3 dB	38.7 dB	25.2 dB	
350 MHz	36.3 db/100m	37.1 dB	0.8 dB	23.9 dB	16.3 dB	100 ± 32 Ohm	100 ± 10 Ohm	62.3 dB	37.3 dB	24.6 dB	
400 MHz	39.0 db/100m	36.3 dB		22.8 dB	15.9 dB	100 ± 32 Ohm	100 ± 10 Ohm	61.5 dB	36.2 dB	24 dB	
450 MHz	41.5 db/100m	35.5 dB		21.7 dB	15.5 dB	100 ± 32 Ohm	100 ± 10 Ohm	60.7 dB	35.1 dB	23.5 dB	
500 MHz	43.9 db/100m	34.8 dB		20.8 dB	15.2 dB	100 ± 32 Ohm	100 ± 10 Ohm	60 dB	34.2 dB	23 dB	
550 MHz	46.2 db/100m	34.2 dB		20 dB	14.9 dB	100 ± 32 Ohm	100 ± 10 Ohm	59.4 dB	33.4 dB		
600 MHz	48.4 db/100m	33.6 dB		19.2 dB	14.7 dB	100 ± 32 Ohm	100 ± 10 Ohm	58.8 dB	32.6 dB		
625 MHz	49.5 db/100m	33.4 dB		18.9 dB	14.5 dB	100 ± 32 Ohm	100 ± 10 Ohm	58.6 dB	32.3 dB		
750 MHz	54.7 db/100m	32.2 dB		17.3 dB	14 dB			57.4 dB	30.7 dB		
860 MHz	59.9 db/100m	31.3 dB		16.1 dB	13.6 dB			56.5 dB	29.5 dB		

Voltage:

UL Voltage Rating

300 V

Use

Suitability - Outdoor:

No

Suitability - Sunlight Resistance:

No

Max Recommended Pulling Tension:	40 lbs
----------------------------------	--------

Safety

C(UL) Flammability:	FT6
CSA Flammability:	FT6
UL Flammability:	NFPA 262 Plenum Flame Test (UL910)

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	1.1 in
Min Bend Radius/Installation:	2.5 in

Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	10GXS12

Standards

ISO/IEC Compliance:	11801 ed 2.1 (2008) Class EA
Telecommunications Standards:	ANSI/TIA/EIA 568 C.2 Category 6A
CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMP
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMP
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

History

Notes:

Jacket sequentially printed every 2 ft/1m. Third party channel verified to TIA 568-C.2, Category 6A. Meets Component Requirements for TIA 568-C.2 Category 6A Horizontal Cable, Values above 625MHz for Engineering Information Only

Product Variants

Part Number	Color	Put-Up Type	Length
10GXS13 0021000	Red	Reel	1000 ft
10GXS13 0031000	Orange	Reel	1000 ft
10GXS13 0041000	Yellow	Reel	1000 ft
10GXS13 0051000	Green	Reel	1000 ft
10GXS13 0071000	Purple	Reel	1000 ft
10GXS13 0081000	Gray	Reel	1000 ft
10GXS13 0091000	White	Reel	1000 ft
10GXS13 0101000	Black	Reel	1000 ft
10GXS13 D151000	Blue	Reel	1000 ft
10GXS13002A1000	Red	Reel-in-Box	1000 ft
10GXS13003A1000	Orange	Reel-in-Box	1000 ft
10GXS13004A1000	Yellow	Reel-in-Box	1000 ft
10GXS13005A1000	Green	Reel-in-Box	1000 ft
10GXS13007A1000	Purple	Reel-in-Box	1000 ft
10GXS13008A1000	Gray	Reel-in-Box	1000 ft
10GXS13009A1000	White	Reel-in-Box	1000 ft
10GXS13010A1000	Black	Reel-in-Box	1000 ft
10GXS13D15A1000	Blue	Reel-in-Box	1000 ft

© 2015 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.