

10GX12 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

23 AWG solid bare copper conductors, polyolefin insulation, patented H-spline center member, ripcord, PVC 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
PO - Polyolefin

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
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: 40 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: CMR

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CEC/C(UL) Specification:	CMR
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:	UL1666 Riser
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	10GX13

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

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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
10GX12 0021000	1,000 FT	0.000	RED		4PR23 CMR (24816695H)
10GX12 0031000	1,000 FT	0.000	ORANGE		4PR23 CMR (24816595H)
10GX12 0041000	1,000 FT	0.000	YELLOW		4PR23 CMR (24816795H)
10GX12 0041500	1,500 FT	0.000	YELLOW		4PR23 CMR (24816754H)
10GX12 0051000	1,000 FT	0.000	GREEN, DARK		4PR23 CMR (24816895H)
10GX12 0061000	1,000 FT	0.000	BLUE, LIGHT		4PR23 CMR (24816995H)
10GX12 0062500	2,500 FT	0.000	BLUE, LIGHT		4PR23 CMR (24816946H)
10GX12 0071000	1,000 FT	0.000	VIOLET		4PR23 CMR (24816P95H)
10GX12 0081000	1,000 FT	0.000	GRAY		4PR23 CMR (24816195H)
10GX12 0091000	1,000 FT	0.000	WHITE		4PR23 CMR (24816395H)
10GX12 0091500	1,500 FT	0.000	WHITE		4PR23 CMR (24816352H)
10GX12 0101000	1,000 FT	0.000	BLACK		4PR23 CMR (24816495H)

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