

10GX24 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, LSZH 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
LSZH - Low Smoke Zero Halogen

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Cabling Fillers: RoundFlex - Double H cross-web

Overall Nominal Diameter: 7.493 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: +5°C To +50°C

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 59.528 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Other Standards:	60754-1, 60754-2, ISO/IEC 11801
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):	06/11/2009
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

IEC Flame Test:	60332-1
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Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)	55.777
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Maximum Capacitance Unbalance (pF/100 m):	330
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Nominal Velocity of Propagation:

VP (%)	64.000
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Maximum Delay:

Delay (ns/100 m)	537 @ 100MHz
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Max. Delay Skew:

Delay Skew (ns/100 m)	45
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Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)	7.400
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Max. Operating Voltage - UL:

Voltage	300 V RMS
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Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)	3.000
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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

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16	7.500	55.2	47.8	25.000
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	16.4	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 every 2 ft/1m. US Patents 5424491, 5734126 and others pending.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
10GX24 0071000	305 MT	0.000 FT	VIOLET		4PR23 LSOH (24818095)
10GX24 0091000	305 MT	0.000 FT	WHITE		4PR23 LSOH (24818395)

Revision Number: 0 Revision Date: 04-27-2010

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