

## 10GX24 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT6A (625MHz), 4-Pair, U/UTP-Unshielded, Zero Halogen, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented Double-H Spline, 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

**Total Number of Conductors:** 8

#### 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 Cable

**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 +75°C

**Bulk Cable Weight:** 59.528 Kg/Km

**Max. Recommended Pulling Tension:** 177.928 N

**Min. Bend Radius/Minor Axis:** 30.480 mm

**Min. Bend/Installation:** 76.200 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**EU Directive 2011/65/EU (ROHS II):** Yes

**Other Standards:** 60754-1, 60754-2

**EU CE Mark:** Yes

**EU Directive 2000/53/EC (ELV):** Yes

## METRIC MEASUREMENT VERSION

### 10GX24 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable

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.C.2, Class EA - ISO/IEC 11801:2002 Amendment 2

#### Applicable Patents:

##### Country

www.belden.com/p

#### 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

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

##### VP (%)

64.000

#### 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

#### 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
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
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

## METRIC MEASUREMENT VERSION

### 10GX24 Multi-Conductor - Enhanced Category 6A Nonbonded-Pair Cable

860	61.200	29.3		13.600
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#### Notes (Overall)

**Notes:** Jacket sequentially printed every 2 ft/1m. Category 6A. 0.295" cable dimension per TIA 6@1 equivalent diameter.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
10GX24 0041000	1,000 FT	35.000 LB	YELLOW		CAT6A 4PR U/UTP LSZH REEL
10GX24 0061000	1,000 FT	35.000 LB	BLUE, LIGHT		CAT6A 4PR U/UTP LSZH REEL
10GX24 0071000	1,000 FT	35.000 LB	VIOLET		CAT6A 4PR U/UTP LSZH REEL
10GX24 0091000	1,000 FT	35.000 LB	WHITE		CAT6A 4PR U/UTP LSZH REEL

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