



10GX24

Part Number: 10GX24

Enhanced Category 6A Nonbonded-Pair Cable

Product 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

Product Specifications

Technical Specifications

Product Description

Application

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

Classification

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Conductor

Total Number of Conductors:

8

Insulation:

Material

PO - Polyolefin

Insulation

Color Chart 1:

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

InnerShield

Cabling¹

Outerjacket 1:

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen	0.295 mm	Yes

OuterJacket¹

OuterJacket²

Part Number

Static Ground

Tracer

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Nominal Mutual Capacitance

17 pF/ft

General Electrical Parameters

Delay:

Max. Delay Description	Max. Delay Skew	Nominal Velocity of Propagation (VP)
537 @ 100MHz	45 ns/100m	64 ns/100m

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT	Min. PSACR	Min. RL (Return Loss)
1 MHz	2.1 db/100m	73.3 dB	71.2 dB	20 dB
4 MHz	3.8 db/100m	64.3 dB	60.5 dB	23 dB
8 MHz	5.3 db/100m	59.8 dB	54.4 dB	24.5 dB
10 MHz	5.9 db/100m	58.3 dB	52.4 dB	25 dB
16 MHz	7.5 db/100m	55.2 dB	47.8 dB	25 dB
20 MHz	8.4 db/100m	53.8 dB	45.4 dB	25 dB
25 MHz	9.4 db/100m	52.3 dB	43 dB	24.3 dB
31.25 MHz	10.5 db/100m	50.9 dB	40.4 dB	23.6 dB
62.5 MHz	15 db/100m	46.4 dB	31.4 dB	21.5 dB
100 MHz	19.1 db/100m	43.3 dB	24.2 dB	20.1 dB
200 MHz	27.6 db/100m	38.8 dB	11.2 dB	18 dB
250 MHz	31.1 db/100m	37.3 dB	6.3 dB	17.3 dB
300 MHz	34.3 db/100m	36.1 dB	1.9 dB	16.8 dB
350 MHz	37.2 db/100m	35.1 dB		16.3 dB
400 MHz	40.1 db/100m	34.3 dB		15.9 dB
450 MHz	42.7 db/100m	35.5 dB		15.5 dB
500 MHz	45.3 db/100m	32.8 dB		15.2 dB
550 MHz	47.7 db/100m	32.2 dB		14.9 dB
600 MHz	50.1 db/100m	31.6 dB		14.7 dB
625 MHz	51.2 db/100m	31.4 dB		14.5 dB
750 MHz	56.7 db/100m	30.2 dB		14 dB
860 MHz	61.2 db/100m	29.3 dB		13.6 dB

Voltage:

UL Voltage Rating

300V RMS

Coupling Attenuation

Screening

Transfer Impedance

Use

Max Recommended Pulling Tension:

40 lbs

Material

Safety

ISO/IEC Flammability:

60332-1

Temperature Range

Installation Temp Range:

+5°C To +50 °C

Operating Temp Range:

-20°C To +60°C

Storage Temp Range:

-20°C To +75 °C

Mechanical Characteristics

Bend Radius

Min Bend Radius/Minor Axis:

2 in

Min Bend Radius/Installation:

3 in

Crush Resistance

Connectors

Stripping Performance

EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Part Number

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

Applicable Patents

Country:	US
Patent:	7838773

Standards

ISO/IEC Compliance:	60754-1^60754-2^11801 ed 2.1 (2008) Class EA
Telecommunications Standards:	ANSI/TIA/EIA 568 C.2 Category 6A
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Contact Information

PHONE_NUM:	1-800-Belden1
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History

Usage

Put Ups and Colors

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