



1872A

Part Number: 1872A

Enhanced Category 6 Bonded-Pair Cable

Product Description

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductor, Polyolefin Insulation, Ripcord, PVC Jacket

Product Specifications

Technical Specifications

Product Description

Application

Suitable Applications:

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments

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

Nominal Wall Thickness

PO - Polyolefin	0.009 in
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Insulation

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

InnerShield

Cabling¹

Outershield 1:

Material
Unshielded

Outerjacket 1:

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.165 mm	Yes
	0.365 in	

OuterJacket¹

OuterJacket²

Part Number

Static Ground

Tracer

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Nominal Mutual Capacitance
15 pF/ft

General Electrical Parameters

Delay:

Max. Delay Skew	Nominal Velocity of Propagation (VP)
25 ns/100m	70 ns/100m

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF (ELFEXT)	Min. PSACRF (PSELFEXT)	Min. RL (Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	1.9 db/100m	74.3 dB	72.3 dB	72.4 dB	70.4 dB	67.8 dB	64.8 dB	20 dB	100 ± 12 Ohm	100 ± 15 Ohm
4 MHz	3.7 db/100m	65.3 dB	63.3 dB	61.6 dB	59.6 dB	55.7 dB	52.8 dB	23 dB	100 ± 12 Ohm	100 ± 15 Ohm
8 MHz	5.3 db/100m	60.3 dB	58.8 dB	55.5 dB	53.5 dB	49.7 dB	46.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 15 Ohm
10 MHz	5.9 db/100m	59.3 dB	57.3 dB	53.4 dB	51.4 dB	47.8 dB	44.8 dB	25 dB	100 ± 12 Ohm	100 ± 15 Ohm
16 MHz	7.5 db/100m	56.3 dB	54.3 dB	48.7 dB	46.7 dB	43.7 dB	40.7 dB	25 dB	100 ± 12 Ohm	100 ± 8 Ohm
20 MHz	8.4 db/100m	54.8 dB	52.8 dB	46.4 dB	44.4 dB	41.7 dB	38.7 dB	25 dB	100 ± 12 Ohm	100 ± 8 Ohm
25 MHz	9.5 db/100m	53.4 dB	51.4 dB	43.9 dB	41.9 dB	39.8 dB	36.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 8 Ohm
31.25 MHz	10.6 db/100m	51.9 dB	49.9 dB	41.2 dB	39.2 dB	37.9 dB	34.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 8 Ohm
62.5 MHz	15.4 db/100m	47.4 dB	45.4 dB	32 dB	30 dB	31.8 dB	28.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 8 Ohm
100 MHz	19.8 db/100m	44.3 dB	42.3 dB	24.5 dB	22.5 dB	27.8 dB	24.8 dB	21 dB	100 ± 15 Ohm	100 ± 8 Ohm
155 MHz	25.1 db/100m	41.5 dB	39.5 dB	16.3 dB	14.3 dB	23.9 dB	20.9 dB	21 dB	100 ± 15 Ohm	100 ± 8 Ohm
200 MHz	29 db/100m	39.8 dB	37.8 dB	10.8 dB	10 dB	21.7 dB	18.8 dB	21 dB	100 ± 15 Ohm	100 ± 8 Ohm

250 MHz	32.8 db/100m	38.3 dB	36.3 dB	5.5 dB	3.5 dB	19.8 dB	16.8 dB	18 dB	100 ± 20 Ohm	100 ± 8 Ohm
300 MHz	35.2 db/100m	37.2 dB	34.2 dB	0.7 dB	0 dB	18.2 dB	15.2 dB	18 dB	100 ± 20 Ohm	100 ± 8 Ohm
310 MHz	37.1 db/100m	36.9 dB	34.9 dB	0 dB		17.9 dB	14.9 dB	18 dB	100 ± 20 Ohm	100 ± 8 Ohm
350 MHz	39.8 db/100m	36.2 dB	34.2 dB			16.9 dB	13.9 dB	17 dB	100 ± 22 Ohm	100 ± 8 Ohm
400 MHz	43 db/100m	35.3 dB	33.3 dB			15.7 dB	12.7 dB	14 dB	100 ± 32 Ohm	100 ± 8 Ohm
500 MHz	49 db/100m	33.8 dB	31.8 dB			13.8 dB	10.8 dB	14 dB	100 ± 32 Ohm	100 ± 8 Ohm

Voltage:

UL Voltage Rating

300V RMS

Coupling Attenuation

Screening

Transfer Impedance

Use

Max Recommended Pulling Tension:

45 lbs

Material

Safety

CSA Flammability:

FT4

UL Flammability:

UL1666 Riser

Temperature Range

Operating Temp Range:

-20°C To +80°C

Mechanical Characteristics

Bend Radius

Min Bend Radius/Minor Axis:	0.5 in
Min Bend Radius/Installation:	1.65 in

Crush Resistance

Connectors

Stripping Performance

EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

Part Number

Plenum (Y/N):	No
Plenum Number:	1874A

Applicable Patents

Country:	US
Patent:	5821467

Standards

ISO/IEC Compliance:	11801 ed 2.1 (2008) Class E
Telecommunications Standards:	ANSI/TIA/EIA 568 C.2 Category 6
CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMR
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMR

Contact Information

PHONE_NUM:	1-800-Belden1
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History

Put Ups and Colors

Notes:

Jacket sequentially marked at 2 ft. intervals. Values above 350 MHz are engineering information only. Third party verified to ANSI/TIA-568-C.2, Category 6.

Product Variants

Part Number	Put-Up Type	Length
1872A 0021000	Reel	1000 ft
1872A 002A1000	Reel-in-Box	1000 ft
1872A 0031000	Reel	1000 ft
1872A 003A1000	Reel-in-Box	1000 ft
1872A 0041000	Reel	1000 ft
1872A 004A1000	Reel-in-Box	1000 ft
1872A 0051000	Reel	1000 ft
1872A 005A1000	Reel-in-Box	1000 ft
1872A 0061000	Reel	1000 ft
1872A 006A1000	Reel-in-Box	1000 ft
1872A 0071000	Reel	1000 ft
1872A 007A1000	Reel-in-Box	1000 ft
1872A 0091000	Reel	1000 ft
1872A 009A1000	Reel-in-Box	1000 ft
1872A 0101000	Reel	1000 ft
1872A F6H1000	Reel	1000 ft
1872A F6HA1000	Reel-in-Box	1000 ft
1872A X6G1000	Reel	1000 ft
1872A X6GA1000	Reel-in-Box	1000 ft

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