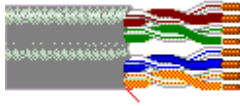


## 1872A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

For more Information  
please call

1-800-Belden1



### Description:

23 AWG Bonded-Pairs, Solid Bare Copper Conductor, Non-Plenum, Polyolefin Insulation, Rip Cord, PVC Jacket

### Usage (Overall)

**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

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

#### Insulation

**Insulation Material:**

Insulation Material
PO - Polyolefin

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (in.)
0.365
0.165

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Nominal Diameter:** 0.365 x 0.165 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 +80°C

**Bulk Cable Weight:** 29 lbs/1000 ft.

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Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius (Install)/Minor Axis: 1 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMR

Other Standards: ISO/IEC 11801 ed 2.1 (2008) Class E

EU CE Mark: No

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 6 - TIA 568.C.2

Other Specification: UL Verified to Category 6

#### Applicable Patents:

Country	Patent
US	5606151
US	5734126
US	5821467

#### Flame Test

UL Flame Test: UL1666 Vertical Riser

CSA Flame Test: FT4

#### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 1874A

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)

15.0

Maximum Capacitance Unbalance (pF/100 m): 49

#### Nominal Velocity of Propagation:

VP (%)

70

#### Maximum Delay:

Delay (ns/100 m)

510 @ 100MHz

#### Max. Delay Skew:

Delay Skew (ns/100 m)

25

#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

7.500

#### Max. Operating Voltage - UL:

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**Voltage**

300 V RMS

**Maximum DCR Unbalanced:**

**DCR Unbalance @ 20°C (%)**

3

### Electrical Characteristics-Premise (Overall)

**Premise Cable Electrical Table 1:**

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	1.9	74.3	72.3	70	70	20.0
4	3.7	65.3	63.3	59	59	23.0
8	5.3	60.3	58.8	53	53	24.5
10	5.9	59.3	57.3	51	51	25.0
16	7.5	56.3	54.3	46	46	25.0
20	8.4	54.8	52.8	44	44	25.0
25	9.5	53.4	51.4	42	42	24.3
31.25	10.6	51.9	49.9	39	39	23.6
62.5	15.4	47.4	45.4	30	30	21.5
100	19.8	44.3	42.3	25	25	21.0
155	25.1	41.5	39.5	14	14	21.0
200	29.0	39.8	37.8	10	10	21.0
250	32.8	38.3	36.3	3	3	18.0
300	35.2	37.2	34.2	0	0	18.0
310	37.1	36.9	34.9			18.0
350	39.8	36.2	34.2			17.0
400**	43.0	35.3	33.3			14.0
500**	49.0	33.8	31.8			14.0

**Premise Cable Electrical Table 2:**

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.8
8	100 ± 12	100 ± 15	49.7	46.7
10	100 ± 12	100 ± 15	47.8	44.8
16	100 ± 12	100 ± 8	43.7	40.7
20	100 ± 12	100 ± 8	41.7	38.7
25	100 ± 15	100 ± 8	39.8	36.8
31.25	100 ± 15	100 ± 8	37.9	34.9
62.5	100 ± 15	100 ± 8	31.8	28.9
100	100 ± 15	100 ± 8	27.8	24.8
155	100 ± 15	100 ± 8	23.9	20.9
200	100 ± 15	100 ± 8	21.7	18.8
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.2	15.2
310	100 ± 20	100 ± 8	17.9	14.9
350	100 ± 22	100 ± 8	16.9	13.9
400**	100 ± 32	100 ± 8	15.7	12.7
500**	100 ± 32	100 ± 8	13.8	10.8

### Notes (Overall)

**Notes:** Belden IBDN. 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.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1872A F6HA1000	1,000 FT	36.000 LB	GRAY, DARK PEARL		CAT6+ 4PRB U/UTP CMR RIB

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1872A F6H1000	1,000 FT	34.000 LB	GRAY, DARK PEARL	C	CAT6+ 4PRB U/UTP CMR REEL
1872A X6GA1000	1,000 FT	36.000 LB	GOLD X6G		CAT6+ 4PRB U/UTP CMR RIB
1872A X6G1000	1,000 FT	34.000 LB	GOLD X6G	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 002A1000	1,000 FT	36.000 LB	RED		CAT6+ 4PRB U/UTP CMR RIB
1872A 0021000	1,000 FT	34.000 LB	RED	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 003A1000	1,000 FT	36.000 LB	ORANGE		CAT6+ 4PRB U/UTP CMR RIB
1872A 0031000	1,000 FT	34.000 LB	ORANGE	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 004A1000	1,000 FT	36.000 LB	YELLOW		CAT6+ 4PRB U/UTP CMR RIB
1872A 0041000	1,000 FT	34.000 LB	YELLOW	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 005A1000	1,000 FT	36.000 LB	GREEN, DARK		CAT6+ 4PRB U/UTP CMR RIB
1872A 0051000	1,000 FT	34.000 LB	GREEN, DARK	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 006A1000	1,000 FT	36.000 LB	BLUE, LIGHT		CAT6+ 4PRB U/UTP CMR RIB
1872A 0061000	1,000 FT	34.000 LB	BLUE, LIGHT	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 007A1000	1,000 FT	36.000 LB	VIOLET		CAT6+ 4PRB U/UTP CMR RIB
1872A 0071000	1,000 FT	34.000 LB	VIOLET	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 009A1000	1,000 FT	36.000 LB	WHITE		CAT6+ 4PRB U/UTP CMR RIB
1872A 0091000	1,000 FT	34.000 LB	WHITE	C	CAT6+ 4PRB U/UTP CMR REEL
1872A 0101000	1,000 FT	34.000 LB	BLACK	C	CAT6+ 4PRB U/UTP CMR REEL

**Notes:**

C = CRATE REEL PUT-UP.

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