

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



For more Information  
please call

1-800-Belden1



### General 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

### 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

**Total Number of Conductors:** 8

#### 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.

**Max. Recommended Pulling Tension:** 45 lbs.

**Min. Bend Radius/Minor Axis:** 0.500 in.

**Min. Bend/Installation:** 1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMR

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CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
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

Applicable Patents:

Country
www.belden.com/p

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
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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:

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	1.900	75.3	75.3	73.4	73.4	20.000
4	3.700	66.3	66.3	62.6	62.6	23.000
8	5.300	61.8	61.8	56.5	56.5	24.500
10	5.900	60.3	60.3	54.4	54.4	25.000
16	7.500	57.2	57.2	49.7	49.7	25.000
20	8.400	55.8	55.8	47.3	47.3	25.000
25	9.500	54.3	54.3	44.9	44.9	24.300
31.25	10.600	52.9	52.9	42.2	42.2	23.600
62.5	15.400	48.4	48.4	33.0	33.0	21.500
100	19.800	45.3	45.3	25.5	25.5	21.000

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155	25.100	42.4	42.4	17.3	17.3	21.000
200	29.000	40.8	40.8	11.8	11.8	21.000
250	32.800	39.3	39.3	6.5	6.5	18.000
300	36.400	38.1	38.1	1.7	1.7	18.000
350	39.800	37.1	37.1	-2.6	-2.6	17.000
400	43.000	36.3	36.3			14.000
450	46.000	35.5	35.5			14.000
500	48.900	34.8	34.8			14.000
550	51.800	34.2	34.2			14.000

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (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	41.8	38.8
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	24.0	21.0
200	100 ± 15	100 ± 8	21.7	18.8
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.3	15.3
350	100 ± 22	100 ± 8	16.9	13.9
400	100 ± 32	100 ± 8	15.8	12.8
450	100 ± 32	100 ± 8	14.7	11.7
500	100 ± 32	100 ± 8	13.8	10.8
550	100 ± 32	100 ± 8	13.0	10.0

### 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.

### 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
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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