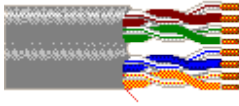


## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



### Description:

23 AWG bonded-pairs, solid bare copper conductor, plenum, FEP Teflon insulation, rip cord, Flamarrest 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
FEP - Fluorinated Ethylene Propylene

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

#### Overall Cabling

**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:** 31 lbs/1000 ft.

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

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

## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, UL444
CEC/C(UL) Specification:	CMP
Other Standards:	11801 Cat 5
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2006
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:	568-B.2-1 Category 6
Other Specification:	UL verified to Category 6

#### Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1872A

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)	15.0
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#### Nominal Velocity of Propagation:

VP (%)	72
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Maximum Capacitance Unbalance (pF/100 m): 49.2

#### Maximum Delay:

Delay (ns/100 m)	510 @ 100MHz
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#### Max. Delay Skew:

Delay Skew (ns/100 m)	25
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#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)	9
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#### Max. Operating Voltage - UL:

Voltage	300 V RMS
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#### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)	3
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### 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)
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## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

1	1.900	74.3	72.3	70	70	20.000
4	3.700	65.3	63.3	59	59	23.000
8	5.300	60.3	58.8	53	53	24.500
10	5.900	59.3	57.3	51	51	25.000
16	7.500	56.3	54.3	46	46	25.000
20	8.400	54.8	52.8	44	44	25.000
25	9.500	53.4	51.4	42	42	24.300
31.25	10.600	51.9	49.9	39	39	23.600
62.5	15.400	47.4	45.4	30	30	21.500
100	19.800	44.4	42.3	25	25	21.000
155	25.100	41.5	39.4	14	14	21.000
200	29.000	39.8	37.8	10	10	21.000
250	32.800	38.3	36.3	3	3	18.000
300	35.200	37.2	35.1	0	0	18.000
310	37.100	36.9	34.9			18.000
350	39.800	36.1	34.1			17.000
400**	43.000	35.3	33.3			14.000
500**	49.000	33.8	31.8			14.000

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. US Patent #'s 5606151; 5734126; 5821467 \*\*Values above 350 MHz are information only. Third party verified to TIA/EIA-568-B.2-1, Category 6.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
ND0119 D151000	1,000 FT	39.000 LB	BLUE	C	4 PR #23 FEP FLRST
1874A D15A1000	1,000 FT	40.000 LB	BLUE		4 PR #23 FEP FLRST
1874A D151000	1,000 FT	39.000 LB	BLUE	C	4 PR #23 FEP FLRST
1874A F6HA1000	1,000 FT	40.000 LB	GRAY, DARK PEARL		4 PR #23 FEP FLRST
1874A F6H1000	1,000 FT	39.000 LB	GRAY, DARK PEARL	C	4 PR #23 FEP FLRST
1874A 002A1000	1,000 FT	40.000 LB	RED		4 PR #23 FEP FLRST
1874A 0021000	1,000 FT	39.000 LB	RED	C	4 PR #23 FEP FLRST
1874A 003A1000	1,000 FT	40.000 LB	ORANGE		4 PR #23 FEP FLRST
1874A 0031000	1,000 FT	39.000 LB	ORANGE		4 PR #23 FEP FLRST
1874A 004A1000	1,000 FT	40.000 LB	YELLOW		4 PR #23 FEP FLRST
1874A 0041000	1,000 FT	39.000 LB	YELLOW	C	4 PR #23 FEP FLRST
1874A 005A1000	1,000 FT	40.000 LB	GREEN, DARK		4 PR #23 FEP FLRST
1874A 0051000	1,000 FT	39.000 LB	GREEN, DARK	C	4 PR #23 FEP FLRST
1874A 007A1000	1,000 FT	40.000 LB	VIOLET		4 PR #23 FEP FLRST

## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

1874A 0071000	1,000 FT	39.000 LB	VIOLET	C	4 PR #23 FEP FLRST
1874A 009A1000	1,000 FT	40.000 LB	WHITE		4 PR #23 FEP FLRST
1874A 0091000	1,000 FT	39.000 LB	WHITE	C	4 PR #23 FEP FLRST
1874A 0101000	1,000 FT	38.000 LB	BLACK	C	4 PR #23 FEP FLRST
1874A 877A1000	1,000 FT	40.000 LB	NATURAL		4 PR #23 FEP FLRST
1874A 8771000	1,000 FT	39.000 LB	NATURAL	C	4 PR #23 FEP FLRST

**Notes:**

C = CRATE REEL PUT-UP.

# MediaTwist® UTP Cable

TIA/EIA-568-B.2-1, Category 6

Enhanced Category 6 Bonded-Pair Cables

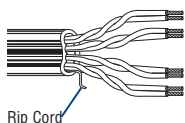
**Certified System Cable**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm										

**23 AWG Bonded-Pairs** Solid Bare Copper Conductor • Rip Cord • See Color Code Chart (below)

**Non-Plenum • Polyolefin Insulation • PVC Jacket** (Blue, Red, Yellow, Orange, Green, Gold, Purple, White, Black or Gray)

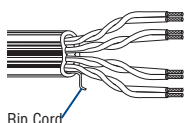
Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)			
1872A	NEC:	4	1000	304.8	37.0	16.8	.365	9.27	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
	CMR		A-1000*	A-304.8	37.0	16.8	x	x					4	3.7	63.3	59	52.8	100±12
	CEC:						.165	4.19				8	5.3	58.8	53	46.7	100±12	24.5
	CMR											10	5.9	57.3	51	44.8	100±12	25.0
												16	7.5	54.3	46	40.7	100±12	25.0
												25	9.5	51.4	42	36.8	100±15	24.3
												31.25	10.6	49.9	39	34.9	100±15	23.6
												62.5	15.4	45.4	30	28.9	100±15	21.5
												100	19.8	42.3	25	24.8	100±15	21.0
												155	25.1	39.5	14	20.9	100±15	21.0
												200	29.0	37.8	10	18.8	100±15	21.0
												250	32.8	36.3	3	16.8	100±20	18.0
												300	35.2	35.2	>0	15.2	100±20	18.0
											350	39.8	34.2	—	13.9	100±22	17.0	
											400 <sup>†</sup>	43.0	—	—	—	100±32	14.0	
											500 <sup>†</sup>	49.0	—	—	—	100±32	14.0	



\*A-1000 ft. put-up not available in Black.  
 Features Descending Length Marking.  
 Jacket sequentially marked at 2 ft. intervals.  
 U.S. Patents 5,606,151; 5,734,126; 5,821,467  
 Third party verified to TIA/EIA-568-B.2-1, Category 6

**Plenum • FEP Teflon® Insulation • Flamarrest® Jacket** (Blue, Natural, Gray, Red, Yellow, Orange, Green, Gold, Purple, White or Black)

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths (Ft./m)	Standard Unit Wt. (Lbs./kg)	Nominal OD (Inch/mm)	Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)			
1874A	NEC:	4	1000	304.8	37.0	16.8	.365	9.27	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
	CMP		A-1000**	A-304.8	38.0	17.2	x	x					4	3.7	63.3	59	52.8	100±12
	CEC:						.165	4.19				8	5.3	58.8	53	46.7	100±12	24.5
	CMP											10	5.9	57.3	51	44.8	100±12	25.0
												16	7.5	54.3	46	40.7	100±12	25.0
												25	9.5	51.4	42	36.8	100±15	24.3
												31.25	10.6	49.9	39	34.9	100±15	23.6
												62.5	15.4	45.4	30	28.9	100±15	21.5
												100	19.8	42.3	25	24.8	100±15	21.0
												155	25.1	39.5	14	20.9	100±15	21.0
												200	29.0	37.8	10	18.8	100±15	21.0
												250	32.8	36.3	3	16.8	100±20	18.0
												300	35.2	35.2	>0	15.2	100±20	18.0
											350	39.8	34.2	—	13.9	100±22	17.0	
											400 <sup>†</sup>	43.0	—	—	—	100±32	14.0	
											500 <sup>†</sup>	49.0	—	—	—	100±32	14.0	



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 Third party verified to TIA/EIA-568-B.2-1, Category 6

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

<sup>†</sup>Values provided for information only.

### Color Codes: MediaTwist

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

