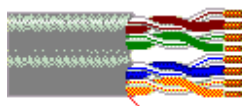


## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductor, FEP Insulation, Ripcord, Flammarrest® 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
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
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
9.271
4.191

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Nominal Diameter:** 9.271 x 4.191 mm

#### 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

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<b>Bulk Cable Weight:</b>	46.134 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	200.169 N
<b>Min. Bend Radius/Minor Axis:</b>	12.700 mm
<b>Min. Bend/Installation:</b>	38.100 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMP
<b>CEC/C(UL) Specification:</b>	CMP
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>Other Standards:</b>	ISO/IEC 11801 ed 2.1 (2008) Class E
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2006
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Telecommunications Standards:</b>	Category 6 - TIA 568.C.2

#### Applicable Patents:

Country	Patent
US	5606151
US	5821467

#### Flame Test

<b>UL Flame Test:</b>	NFPA 262 Plenum Flame Test (UL910)(FT6)
<b>CSA Flame Test:</b>	FT6

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

<b>Capacitance (pF/m)</b>
49.215

**Maximum Capacitance Unbalance (pF/100 m):** 49

#### Nominal Velocity of Propagation:

<b>VP (%)</b>
72

#### Maximum Delay:

<b>Delay (ns/100 m)</b>
510 @ 100MHz

#### Max. Delay Skew:

<b>Delay Skew (ns/100 m)</b>
25

#### Maximum Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/100 m)</b>
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	1.900	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
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	46.900	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 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
1874A D15A1000	305 MT	17.690 KG	BLUE		CAT6+ 4PRB U/UTP CMP RIB
1874A D151000	305 MT	16.783 KG	BLUE	C	CAT6+ 4PRB U/UTP CMP REEL

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

1874A F6HA1000	305 MT	17.690 KG	GRAY, DARK PEARL		CAT6+ 4PRB U/UTP CMP RIB
1874A F6H1000	305 MT	16.783 KG	GRAY, DARK PEARL	C	CAT6+ 4PRB U/UTP CMP REEL
1874A 002A1000	305 MT	17.690 KG	RED		CAT6+ 4PRB U/UTP CMP RIB
1874A 003A1000	305 MT	17.690 KG	ORANGE		CAT6+ 4PRB U/UTP CMP RIB
1874A 004A1000	305 MT	17.690 KG	YELLOW		CAT6+ 4PRB U/UTP CMP RIB
1874A 005A1000	305 MT	17.690 KG	GREEN, DARK		CAT6+ 4PRB U/UTP CMP RIB
1874A 007A1000	305 MT	17.690 KG	VIOLET		CAT6+ 4PRB U/UTP CMP RIB
1874A 0071000	305 MT	16.783 KG	VIOLET	C	CAT6+ 4PRB U/UTP CMP REEL
1874A 009A1000	305 MT	17.690 KG	WHITE		CAT6+ 4PRB U/UTP CMP RIB
1874A 0091000	305 MT	16.783 KG	WHITE	C	CAT6+ 4PRB U/UTP CMP REEL
1874A 0101000	305 MT	16.783 KG	BLACK	C	CAT6+ 4PRB U/UTP CMP REEL
1874A 877A1000	305 MT	17.690 KG	NATURAL		CAT6+ 4PRB U/UTP CMP RIB
1874A 8771000	305 MT	16.783 KG	NATURAL	C	CAT6+ 4PRB U/UTP CMP REEL

**Notes:**

C = CRATE REEL PUT-UP.

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