

## 1871A Multi-Conductor - Category 5 Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT5, 25-Pair, U/UTP-Unshielded, Plenum-CMP, Premise Backbone Cable, 24 AWG solid bare copper conductors, FEP insulation, Ripcord, FEP jacket

### Usage (Overall)

Suitable Applications:

Premise Backbone Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
25	24	Solid	BC - Bare Copper

Total Number of Conductors:

50

#### 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 Material
FEP - Fluorinated Ethylene Propylene

Outer Jacket Diameter:

Nom. Dia. (in.)
0.430

Outer Jacket Ripcord:

Yes

#### 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
5	White/Gray Stripe & Gray
6	Red/Blue Stripe & Blue
7	Red/Orange Stripe & Orange
8	Red/Green Stripe & Green
9	Red/Brown Stripe & Brown
10	Red/Gray Stripe & Gray
11	Black/Blue Stripe & Blue
12	Black/Orange Stripe & Orange
13	Black/Green Stripe & Green
14	Black/Brown Stripe & Brown
15	Black/Gray Stripe & Gray
16	Yellow/Blue Stripe & Blue
17	Yellow/Orange Stripe & Orange
18	Yellow/Green Stripe & Green
19	Yellow/Brown Stripe & Brown
20	Yellow/Gray Stripe & Gray
21	Purple/Blue Stripe & Blue

## 1871A Multi-Conductor - Category 5 Nonbonded-Pair Cable

22	Purple/Orange Stripe & Orange
23	Purple/Green Stripe & Green
24	Purple/Brown Stripe & Brown
25	Purple/Gray Stripe & Gray

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +150°C
Bulk Cable Weight:	120 lbs/1000 ft.
Max. Recommended Pulling Tension:	150 lbs.
Min. Bend Radius/Minor Axis:	4.300 in.
Min. Bend/Installation:	4.300 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, UL444
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
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:	568-B.2 Category 5
Other Specification:	NEMA WC-63.1 Category 5, UL Verified to Category 5

#### Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1864A

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

##### Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m): 330

#### Nominal Velocity of Propagation:

##### VP (%)

72

#### Maximum Delay:

##### Delay (ns/100 m)

538 @ 100 MHz

#### Max. Delay Skew:

##### Delay Skew (ns/100 m)

45

#### Maximum Conductor DC Resistance:

##### DCR @ 20°C (Ohm/100 m)

9.38

#### Max. Operating Voltage - UL:

##### Voltage

300 V RMS

#### Maximum DCR Unbalanced:

##### DCR Unbalance @ 20°C (%)

## 1871A Multi-Conductor - Category 5 Nonbonded-Pair Cable

5

### Electrical Characteristics-Premise (Overall)

Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
1	2.0	62.3	23.0	100 ± 15%
4	4.1	53.3	23.0	100 ± 15%
8	5.8	48.8	23.0	100 ± 15%
10	6.5	47.3	23.0	100 ± 15%
16	8.2	44.3	23.0	100 ± 15%
20	9.3	42.8	23.0	100 ± 15%
25	10.4	41.3	20.0	100 ± 15%
31.25	11.7	39.9	21.1	100 ± 15%
62.5	17.0	35.4	18.0	100 ± 15%
100	22.0	32.3	16.0	100 ± 15%

### Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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