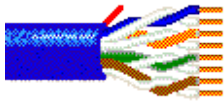


## IBDN25P Multi-Conductor - Category 5e Nonbonded-Pair Cable

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
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray
11	Black & Blue

## IBDN25P Multi-Conductor - Category 5e Nonbonded-Pair Cable

12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Gray
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Gray

### Mechanical Characteristics (Overall)

<b>Storage Temperature Range:</b>	-40°C To +75°C
<b>Installation Temperature Range:</b>	0°C To +60°C
<b>Operating Temperature Range:</b>	-40°C To +60°C
<b>Bulk Cable Weight:</b>	137 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	150 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	4.300 in.
<b>Min. Bend/Installation:</b>	4.300 in.

### 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>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<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>	568-B.2 Category 5e
<b>Other Specification:</b>	NEMA WC-63.1 Category 5e, UL verified to Category 5e

#### Flame Test

<b>C(UL) Flame Test:</b>	FT6
<b>CSA Flame Test:</b>	FT6

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	Yes
<b>Non-Plenum Number:</b>	IBDN25R

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

<b>Capacitance (pF/ft)</b>
14.000

<b>Maximum Capacitance Unbalance (pF/100 m):</b>	330
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## IBDN25P Multi-Conductor - Category 5e Nonbonded-Pair Cable

### Nominal Velocity of Propagation:

<b>VP (%)</b>
72.000

### Maximum Delay:

<b>Delay (ns/100 m)</b>
538 @ 100MHz

### Max. Delay Skew:

<b>Delay Skew (ns/100 m)</b>
45

### Maximum Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/100 m)</b>
9.38

### Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

### Maximum DCR Unbalanced:

<b>DCR Unbalance @ 20°C (%)</b>
5

## Electrical Characteristics-Premise (Overall)

### Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
.772	1.500	70		
1	1.900	68	20	100 ± 15%
4	3.800	57	23.0	100 ± 15%
8	5.400	54	24.5	100 ± 15%
10	6.100	52	25	100 ± 15%
16	7.800	50	25	100 ± 15%
20	8.800	48	25	100 ± 15%
25	9.900	47	24.3	100 ± 15%
31.25	11.100	46	23.6	100 ± 15%
62.5	16.000	42	21.5	100 ± 15%
100	20.500	38	20.1	100 ± 15%

## Notes (Overall)

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

## Reference (Overall)

**Previous Part Number:** 24577123

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
IBDN25P 008CUT	1 FT	0.000	GRAY		CAT5E 25PR U/UTP CMP CUT
IBDN25P 0081000	1,000 FT	151.000 LB	GRAY		CAT5E 25PR U/UTP CMP REEL

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## IBDN25P Multi-Conductor - Category 5e Nonbonded-Pair Cable

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