

## IBDN25R Multi-Conductor - Category 5e Nonbonded-Pair Cable

For more Information  
please call

1-800-Belden1



### Description:

24 AWG solid bare copper conductors, Polyolefin insulation, twisted pairs, rip cord, PVC 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

#### 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 Ripcord:**

Yes

#### Overall Cabling

**Overall Nominal Diameter:**

0.510 in.

#### 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
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Gray

## IBDN25R Multi-Conductor - Category 5e Nonbonded-Pair Cable

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>Operating Temperature Range:</b>	-30°C To +60°C
<b>Bulk Cable Weight:</b>	146 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	150 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	5.100 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMR
<b>CEC/C(UL) Specification:</b>	CMR
<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>	Category 5e - TIA 568.C.2
<b>Other Specification:</b>	NEMA WC-63.1 Category 5e, UL verified to Category 5e

#### Flame Test

<b>UL Flame Test:</b>	UL1666 Riser
<b>C(UL) Flame Test:</b>	FT4
<b>CSA Flame Test:</b>	FT4

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
<b>Plenum Number:</b>	IBDN25P

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

**Capacitance (pF/ft)**

14.000

**Maximum Capacitance Unbalance (pF/100 m):** 330

#### Nominal Velocity of Propagation:

**VP (%)**

68.000

#### Maximum Delay:

**Delay (ns/100 m)**

538 @ 100MHz

#### Max. Delay Skew:

## IBDN25R Multi-Conductor - Category 5e Nonbonded-Pair Cable

**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 (%)**

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	1.800	64		
1	2.000	62.3	20	100 ± 15%
4	4.100	53.3	23.0	100 ± 15%
8	5.800	48.8	24.5	100 ± 15%
10	6.500	47.3	25	100 ± 15%
16	8.200	44.3	25	100 ± 15%
20	9.300	42.8	25	100 ± 15%
25	10.400	41.3	24.3	100 ± 15%
31.25	11.700	39.9	23.6	100 ± 15%
62.5	17.000	35.4	21.5	100 ± 15%
100	22.000	32.3	20.1	100 ± 15%

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 foot intervals with footage and meter markings. Third party verified to TIA/EIA-568-B.2, Category 5e.

### Reference (Overall)

**Previous Part Number:** 24576125

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
IBDN25R 0061000	1,000 FT	20.000 LB	BLUE, LIGHT		25PR24 CMR(24576125 EX006)
IBDN25R 006500	500 FT	11.000 LB	BLUE, LIGHT		25PR24CMR(24576125 EX:006 500)
IBDN25R 008CUT	1 FT	0.000	GRAY		25PR24 CMR (24576123) SMI80
IBDN25R 0081000	1,000 FT	20.000 LB	GRAY		25PR24 CMR (24576125) SMI80

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