

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



For more Information  
please call

1-800-Belden1



### General Description:

CAT5e (100MHz), 25-Pair, U/UTP-Unshielded, Riser-CMR, Premise Backbone Cable, 24 AWG solid bare copper conductors, Polyolefin insulation, Ripcord, 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

**Total Number of Conductors:** 50

#### 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 Cable

**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
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange

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23	Purple & Green
24	Purple & Brown
25	Purple & Gray

### Mechanical Characteristics (Overall)

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
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:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e

#### Flame Test

UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	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:

##### 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 (%)

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### 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-C.2, Category 5e.

### Reference (Overall)

Previous Part Number: 24576125

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
IBDN25R 006500	500 FT	78.500 LB	BLUE, DARK		CAT5E 25PR U/UTP CMR REEL
IBDN25R 008CUT	1 FT	0.000	GRAY		CAT5E 25PR U/UTP CMR CUT
IBDN25R 0081000	1,000 FT	150.000 LB	GRAY		CAT5E 25PR U/UTP CMR REEL
IBDN25R 0085000	5,000 FT	0.000	GRAY		CAT5E 25PR U/UTP CMR REEL

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