

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

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

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 (%)

5

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

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, LIGHT		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		3AT5E 25PR U/UTP CMR REEL
IBDN25R 0085000	5,000 FT	0.000	GRAY		CAT5E 25PR U/UTP CMR REEL

Revision Number: 2 Revision Date: 03-25-2014

© 2015 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.