



Product: [IBDN25P](#)

Category 5e Backbone Cable, 25 Pair, U/UTP, CMP

Product Description

Category 5e Premise Backbone Cable (100MHz), 25 Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Plenum-CMP, PVC-LS Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Backbone Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE
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Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	25

Insulation

Material	Color Code
FEP - Fluorinated Ethylene Propylene	Western Electric (Non-Striped)

Bonded-Pair:	No
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Outer Jacket Material

Material	Nom. Diameter	Ripcord
FEP - Fluorinated Ethylene Propylene	0.430 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	5%	330 pF/100m	14 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	45 ns/100m	72%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT [dB]	Min. RL (Return Loss) [dB]	Max./Min. Fitted Impedance
1 MHz	2.0 dB/100m	62.3 dB	20.0 dB	100 ± 15%
4 MHz	4.1 dB/100m	53.3 dB	23.0 dB	100 ± 15%
8 MHz	5.8 dB/100m	48.8 dB	24.5 dB	100 ± 15%
10 MHz	6.5 dB/100m	47.3 dB	25.0 dB	100 ± 15%
16 MHz	8.2 dB/100m	44.3 dB	25.0 dB	100 ± 15%
20 MHz	9.3 dB/100m	42.8 dB	25.0 dB	100 ± 15%
25 MHz	10.4 dB/100m	41.3 dB	24.3 dB	100 ± 15%
31.25 MHz	11.7 dB/100m	39.9 dB	23.6 dB	100 ± 15%
62.5 MHz	17.0 dB/100m	35.4 dB	21.5 dB	100 ± 15%
100 MHz	22.0 dB/100m	32.3 dB	20.1 dB	100 ± 15%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
60°C	-40°C To +60°C	0°C To +60°C	-40°C To +60°C

Bend Radius

Stationary Min.	Installation Min.
4.5 in	8.75 in

Max. Pull Tension:	150 lbs
Bulk Cable Weight:	137 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, UL 910 (Plenum), FT6, FT6, IEC 60332-1-2
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
ICEA Compliance:	S-90-661-2012
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Non-Plenum Number:	IBDN25R
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Variants

Item #	Color	Putup Type	Length	UPC
IBDN25P 008CUT	Gray	Cut to Length		612825061885
IBDN25P 008CUT	Gray	Cut to Length	1 ft	612825061885
IBDN25P 0081000	Gray	Reel	1,000 ft	612825061892
IBDN25P 0081000	Gray	Reel	1,000 ft	612825061892

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Print Includes Descending Footage/Meter Markings.
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History

Update and Revision:	Revision Number: 0.364 Revision Date: 09-30-2020
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