



Product: [DIW6](#) 

CAT3 Backbone, 6pr, UTP, PVC Jkt, CMR

Product Description

CAT3, DIW 6-Pair, U/UTP-unshielded, Riser-CMR, Premise Horizontal cable, 24 AWG solid bare copper conductors, PVC insulation, ripcord, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Backbone Cable
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	6

Insulation

Material	Color Code
PVC - Polyvinyl Chloride	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown, White/Slate & Slate, Red/Blue & Blue

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.203 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	330 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
16 MHz	543 ns/100m	45 ns/100m	68%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. RL (Return Loss) [dB]	Max./Min. Fitted Impedance
0.772	2.2	47.0	43.0	50.1	46.1		
1	2.6	45.0	41.0	47.8	43.8	12.0	100 ± 15 Ohm
4	5.6	36.0	32.0	36.0	32.0	12.0	100 ± 15 Ohm
8	8.5	31.0	28.0	28.3	24.3	12.0	100 ± 15 Ohm
10	9.7	30.0	26.0	26.2	22.3	12.0	100 ± 15 Ohm
16	13.1	27.0	23.0	20.1	16.1	10.0	100 ± 15 Ohm

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
60°C	-30°C To +60°C	-30°C To +60°C	-30°C To +60°C

Bend Radius

Stationary Min.	Installation Min.
1.0 in (25 mm)	2.0 in (51 mm)

Max. Pull Tension:	55 lbs (25 kg)
Bulk Cable Weight:	23 lbs/1000ft (34 kg/km)

Standards and Compliance

Environmental Suitability:	Riser, Indoor
Flammability / Reaction to Fire:	UL 1666 Riser, FT4
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMR
Data Category:	Category 3
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 3
Third Party Performance Verification:	Category 3
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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: 0.603 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
DIW6 7321000	Olive	Reel	1,000 ft	612825060864
DIW6 7321000	Olive	Reel	1,000 ft	612825060864

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