Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



DIW50 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information please call

1-800-Belden1



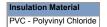
General Description:

CAT3 (16MHz), DIW 50-Pair, U/UTP-Unshielded, Riser-CMR, Premise Backbone Cable, 24 AWG solid bare copper conductors, PVC insulation, Ripcord, PVC jacket

Usage (Overall) Suitable Applications: Premise Backbone Cable Physical Characteristics (Overall) Conductor AWG: # Pairs AWG Stranding Conductor Material 50 | 24 | Solid | BC - Bare Copper Total Number of Conductors: 100

Insulation

Insulation Material:



Outer Jacket

Outer Jacket Material:



Outer Jacket Diameter:



Overall Cable

Overall Cabling Color Code Chart:

Number	Group/Cond. Color
1	Blue/White
2	Orange/White

Pair

Pair Color Code Chart:

Number	Color	
1	White/Blue	
2	White/Orange	
3	White/Green	
4	White/Brown	
5	White/Slate	
6	Red/Blue	
7	Red/Orange	
8	Red/Green	
9	Red/Brown	
10	Red/Slate	
11	Black/Blue	
12	Black/Orange	
13	Black/Green	
14	Black/Brown	
15	Black/Slate	
16	Yellow/Blue	
17	Yellow/Orange	
18	Yellow/Green	
19	Yellow/Brown	
20	Yellow/Slate	
21	Violet/Blue	
22	Violet/Orange	

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23	Violet/Green
24	Violet/Brown
25	Violet/Slate

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	0°C
Bulk Cable Weight:	297.640 Kg/Km
Max. Recommended Pulling Tension:	1334.460 N
Min. Bend Radius/Minor Axis:	139.700 mm
Min. Bend/Installation:	139.700 mm
oplicable Specifications and Agency Compl	iance (Overall)
pplicable 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 RoHS Compliance Date (mm/dd/yyyy):	08/19/2005
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
Other Specification:	Meets Category 3 transmission performance requirements for multi-pair backbone cables as specified by TIA/EIA 568 B-2, including power-sum NEXT
ame Test	
UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4

No

DPLN50

Electrical Characteristics (Overall)

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m) 9.380

Maximum DCR Unbalanced:

Plenum (Y/N):

Plenum Number:

DCR Unbalance @ 20°C (%) 5.000

Electrical Characteristics-Premise (Overall)

Premise Cable Elelctricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
.772	2.200	43		
1.0	2.600	41	12	100 +/- 15
4.0	5.600	32	12	100 +/- 15
8.0	8.500	28	12	100 +/- 15
10.0	9.700	26	12	100 +/- 15
16.0	13.100	23	10	100 +/- 15

Notes (Overall)

Notes: Jacket sequentially printed with dual footage and meter markings.

Reference (Overall)

Previous Part Number: 24501876

Put Ups and Colors:

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
DIW50 732CUT	1 FT	0.000	GRAY, LIGHT OLIVE		CAT3 50PR U/UTP CMR CUT
DIW50 7321000	1,000 FT	190.000 LB	GRAY, LIGHT OLIVE		CAT3 50PR U/UTP CMR REEL SMI80
DIW50 7322500	2,500 FT	475.000 LB	GRAY, LIGHT OLIVE		CAT3 50PR U/UTP CMR REEL

Revision Number: 2 Revision Date: 08-14-2013

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