Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



DIW50 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information please call

1-800-Belden1



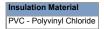
General Description:

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 Material
PVC - Polyvinyl Chloride

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	

Page 1 of 3 08-12-2014

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



DIW50 Multi-Conductor - Category 3 Nonbonded-Pair Cable

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

Mechanical Characteristics (Overall)				
Operating Temperature Range:	-30°C To +60°C			
UL Temperature Rating:	60°C			
Bulk Cable Weight:	200 lbs/1000 ft.			
Max. Recommended Pulling Tension:	300 lbs.			
Min. Bend Radius/Minor Axis:	5.500 in.			
Min. Bend/Installation:	5.500 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 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			
Flame Test				
UL Flame Test:	UL1666 Riser			
C(UL) Flame Test:	FT4			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	DPLN50			

Electrical Characteristics (Overall)

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m) 9.380

Maximum DCR Unbalanced:

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:

Page 2 of 3 08-12-2014

Detailed Specifications & Technical Data





DIW50 Multi-Conductor - Category 3 Nonbonded-Pair Cable

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

© 2014 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.

Page 3 of 3 08-12-2014