

## DIW50 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### Description:

24 AWG solid bare copper conductors, PVC insulation, twisted pairs. rip cord, 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

#### Insulation

**Insulation Material:**

Insulation Material
PVC - Polyvinyl Chloride

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

**Overall Cabling Color Code Chart:**

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

**Overall Nominal Diameter:** 0.540 in.

#### 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

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19	Yellow/Brown
20	Yellow/Slate
21	Violet/Blue
22	Violet/Orange
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 (Install)/Minor Axis:	6 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
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 Electricals:

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

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16.0	13.100	23	10	100 +/- 15
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**Notes (Overall)**

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

**Reference (Overall)**

**Previous Part Number:** 24501876

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

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

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