

## DIW2 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1

**Description:**

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

**Usage (Overall)**

Suitable Applications: Premise Backbone Cable

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 24  | Solid     | BC - Bare Copper   |

Total Number of Conductors: 4

**Insulation**

Insulation Material:

| Insulation Material |
|---------------------|
| PO - Polyolefin     |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.124           |

**Pair**

Pair Color Code Chart:

| Number | Color        |
|--------|--------------|
| 1      | White/Blue   |
| 2      | White/Orange |

**Mechanical Characteristics (Overall)**

|                              |                 |
|------------------------------|-----------------|
| Operating Temperature Range: | -30°C To +60°C  |
| UL Temperature Rating:       | 60°C            |
| Bulk Cable Weight:           | 12 lbs/1000 ft. |
| Min. Bend Radius/Minor Axis: | 1 in.           |
| Min. Bend/Installation:      | 1.250 in.       |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & 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 |

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|                                       |                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|---------------|----|

## 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         |
| 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: 24501922

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color             | Notes | Item Desc              |
|---------------|----------|-------------|-------------------|-------|------------------------|
| DIW2 732U2500 | 2,500 FT | 27.500 LB   | GRAY, LIGHT OLIVE |       | CAT3 2PR U/UTP CMR BOX |

Revision Number: 0    Revision Date: 07-11-2012

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