Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

DIW12 Multi-Conductor - Category 3 Nonbonded-Pair Cable

For more Information please call

1-800-Belden1

General Description:

CAT3 (16MHz), DIW 12-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
12	24	Solid	BC - Bare Copper

Total Number of Conductors:	24

Insulation

Insulation Material:

Insulation Material
PVC - Polyvinyl Chloride

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
6.858

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	81.851 Kg/Km

Max. Recommended Pulling Tension:	333.615 N
Min. Bend Radius/Minor Axis:	68.580 mm
Min. Bend/Installation:	68.580 mm

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

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:	24501837

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

DIW12 Multi-Conductor - Category 3 Nonbonded-Pair Cable

DIW12 732CUT	1 FT	0.000	GRAY, LIGHT OLIVE		CAT3 12PR U/UTP CMR CUT
DIW12 7321000	1,000 FT	47.000 LB	GRAY, LIGHT OLIVE		CAT3 12PR U/UTP CMR REEL

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