

## 1232A1 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT3 (16MHz), 25-Pair, U/UTP-Unshielded, Riser-CMR, Premise Backbone Cable, 24 AWG solid bare copper conductors, S-R PVC insulation, PVC jacket

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
25	24	Solid	BC - Bare Copper

Total Number of Conductors: 50

#### Insulation

##### Insulation Material:

Insulation Material
PO - Polyolefin

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

##### Outer Jacket Diameter:

Nom. Dia. (mm)
10.135

#### Pair

##### Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe

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19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Gray Stripe & Gray/Purple Stripe

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>Bulk Cable Weight:</b>	144.355 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	689.471 N
<b>Min. Bend Radius/Minor Axis:</b>	83.820 mm
<b>Min. Bend/Installation:</b>	83.820 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMR, UL444
<b>CEC/C(UL) Specification:</b>	CMR
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>IEEE Specification:</b>	802.3 10BaseT, 100BaseT4
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Other Specification:</b>	NEMA WC-63 Category 3, UL verified to TIA/EIA-568-B.2, Category 3

#### Flame Test

<b>UL Flame Test:</b>	UL1666 Riser
<b>CSA Flame Test:</b>	FT4

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/m)

49.215

**Maximum Capacitance Unbalance (pF/100 m):** 330

#### Nominal Velocity of Propagation:

VP (%)

61

#### Nominal Delay:

Delay (ns/m)

4.9215

#### Maximum Conductor DC Resistance:

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**DCR @ 20°C (Ohm/100 m)**

9.38

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

**Maximum DCR Unbalanced:**

**DCR Unbalance @ 20°C (%)**

5

### Electrical Characteristics-Premise (Overall)

**Premise Cable Electricals:**

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
1	2.56	No Spec	41.0	12.0	100 ± 15%
4	5.58	No Spec	32.0	12.0	100 ± 15%
8	8.50	No Spec	27.0	12.0	100 ± 15%
10	9.71	No Spec	26.0	12.0	100 ± 15%
16	13.10	No Spec	23.0	9.96	100 ± 15%

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 3. NEXT is Power Sum tested.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1232A1 0081000	1,000 FT	96.000 LB	GRAY	C	CAT3 25PR U/UTP CMR REEL

**Notes:**

C = CRATE REEL PUT-UP.

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