Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

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

For more Information
please call

1-800-Belden1

RoHS COMPLIANT
ENVIRONMENTALLY FRIENDLY

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. (in.)
0.334

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

10-30-2013

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

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)

Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	97 lbs/1000 ft.
Max. Recommended Pulling Tension:	155 lbs.
Min. Bend Radius/Minor Axis:	3.300 in.
Min. Bend/Installation:	3.300 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR, UL444
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	802.3 10BaseT, 100BaseT4
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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:	NEMA WC-63 Category 3, UL verified to TIA/EIA-568-B.2, Category 3

Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%)
61

Nominal Delay:

Delay (ns/ft)
1.5

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 Elelctricals:

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.

Revision Number: 4   Revision Date: 08-14-2013