

## 1227A1 Multi-Conductor - Category 3 Nonbonded-Pair Cable



For more Information please call

1-800-Belden1



#### **General Description:**

CAT3 (16MHz), 2-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, Polyolefin insulation, PVC jacket

copper conductors, Polyolenn insulation, PV	o jaunel
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	
PP - Polypropylene	
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.)	
0.173	
Pair	
Pair Color Code Chart:	
Number         Color           1         White/Blue Stripe & Blue	
2 White/Orange Stripe & Orange	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	13 lbs/1000 ft.
Max. Recommended Pulling Tension:	15 lbs.
Min. Bend Radius/Minor Axis:	1 in.
Min. Bend/Installation:	1.700 in.
Applicable Specifications and Agency Compliance (	Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR, UL444
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

# **Detailed Specifications & Technical Data**



#### ENGLISH MEASUREMENT VERSION

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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
Flame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	1243A2
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance:	
Capacitance (pF/ft) 15	
Maximum Capacitance Unbalance (pF/100 m):	330
Nominal Velocity of Propagation:	
<b>VP (%)</b> 70	
Nominal Delay:	
Delay (ns/ft) 1.5	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft) 28.0	
Maximum Conductor DC Resistance:	
DCR @ 20°C (Ohm/100 m) 9.38	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Maximum DCR Unbalanced:	
<b>DCR Unbalance @ 20°C (%)</b> 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	41.0	No Spec	12.0	100 ± 15%
4	5.58	32.0	No Spec	12.0	100 ± 15%
8	8.50	27.0	No Spec	12.0	100 ± 15%
10	9.71	26.0	No Spec	12.0	100 ± 15%
16	13.10	23.0	No Spec	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

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1227A1 Q5HU1000	1,000 FT	14.000 LB	WHITE, NEUTRAL		CAT3 2PR U/UTP CMR BOX
1227A1 008U1000	1,000 FT	14.000 LB	GRAY		CAT3 2PR U/UTP CMR BOX

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