



Part Number: 1227A1

CAT3 Horizontal, 2pr, UTP, PVC Jkt, CMR

# **Product Description**

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

# **Technical Specifications**

# **Product Overview**

Environmental Space:	Riser
Suitable Applications:	802.3 10BaseT, 100BaseT4

# **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	2
Condu	ictor Count:		
Total I	Number of Pa	airs:	
Condu	Conductor Size:		

### **Color Chart**

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange

#### **Outer Jacket Material**

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.173 in	No

#### **Electrical Characteristics**

### Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance	Nominal Conductor DCR
93.8 Ohm/km	5 %	28 Ohm/1000ft

# Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
330 pF/100m	15 pF/ft

# Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
16 MHz	543 ns/100m	45 ns/100m	1.5 ns/ft	70 %

### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. SRL (Structural Return Loss)	Max./Min. Fitted Impedance
1 MHz	2.6 dB/100m	41.0 dB	12.0 dB	100 ± 15 Ohm
4 MHz	5.6 dB/100m	32.0 dB	12.0 dB	100 ± 15 Ohm
8 MHz	8.5 dB/100m	27.0 dB	12.0 dB	100 ± 15 Ohm
10 MHz	9.7 dB/100m	26.0 dB	12.0 dB	100 ± 15 Ohm
16 MHz	13.1 dB/100m	23.0 dB	10.0 dB	100 ± 15 Ohm

# Voltage

UL Voltage Rating 300 V RMS

# **Temperature Range**

Installation Temp Range:	0°C To +50°C
UL Temp Rating:	75°C
Storage Temp Range:	-20°C To +75°C
Operating Temp Range:	-20°C To +75°C

# **Mechanical Characteristics**

Bulk Cable Weight:	12 lbs/1000ft
Max Recommended Pulling Tension:	15 lbs
Min Bend Radius/Minor Axis:	1.0 in
Min Bend Radius/Installation:	1.75 in

# **Standards**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
CPR Euroclass:	Eca
Data Category:	Category 3
ANSI Compliance:	S-90-661-2012 Category 3, ANSI/NEMA WC-63.1 Category 3
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 3
Third Party Performance Verification:	Category 3

# **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV): Yes  EU Directive 2002/96/EC (WEEE): Yes  EU Directive 2003/11/EC (BFR): Yes  EU Directive 2003/96/EC (BFR): Yes  EU Directive 2011/65/EU (ROHS II): Yes  EU Directive 2012/19/EU (WEEE): Yes  EU Directive 2012/19/EU (WEEE): Yes  EU Directive 2015/863/EU: Yes  EU Directive Compliance: Yes  EU Directive Compliance: Yes  EU CE Mark: Yes  EU REACH SVHC Compliance (yyyy-mm-dd): 2017-07-10  EU ROHS Compliance Date (yyyy-mm-dd): 2004-01-01  CA Prop 65 (CJ for Wire & Cable): Yes  MII Order #39 (China ROHS): Yes		
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# Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	No
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1666 Riser
ISO/IEC Flammability:	60332-1
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1243A2

#### **Part Number**

#### Variants

varianto	
ltem #	Color
1227A1 008U1000	Gray
1227A1 Q5HU1000	White
Patent:	

#### **Product Notes**

Notes: Print Includes Descending Footage Markings.	
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