

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

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

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------|--------------|
| 24 | Solid | BC - Bare Copper | 2 |

| | |
|------------------------|--------|
| Conductor Count: | 4 |
| Total Number of Pairs: | 2 |
| Conductor Size: | 24 AWG |

Insulation

| Material |
|--------------------|
| PP - Polypropylene |

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 |

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 |

| | |
|------------|--------------------|
| Shielding: | U/UTP - Unshielded |
|------------|--------------------|

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

| | |
|--|--|
| 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 |
| 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 |
| 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 |
| 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 2015/863/EU: | 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 |
| 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 |
| UL Flammability: | UL 1666 Riser |
| ISO/IEC Flammability: | 60332-1 |
| UL voltage rating: | 300 V RMS |
| Plenum (Y/N): | No |
| Plenum Number: | 1243A2 |

Part Number**Variants**

| Item # | Color |
|-----------------|-------|
| 1227A1 008U1000 | Gray |
| 1227A1 Q5HU1000 | White |

| | |
|---------|---|
| Patent: | https://www.belden.com/resources/patents |
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