



Product: [6663U5](#) 

CAT5E Horizontal Security, 4pr, UTP, LS-PVC Jkt, CMP

Product Description

Surveillance Category 5e Cable, Plenum-CMP, 4-24 AWG solid bare copper pairs with FEP insulation, UTP, Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Video, Sound and Security, Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155 ATM, 622 ATM, 100MHz CAT5e |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|

Physical Characteristics (Overall)

| Conductor              |           |                  |              |
|------------------------|-----------|------------------|--------------|
| AWG                    | Stranding | Material         | No. of Pairs |
| 24                     | Solid     | BC - Bare Copper | 4            |
| Conductor Count:       |           |                  | 8            |
| Total Number of Pairs: |           |                  | 4            |

| Insulation                                           |     |
|------------------------------------------------------|-----|
| Material                                             |     |
| PO/FEP - Polyolefin / Fluorinated Ethylene Propylene |     |
| Bonded-Pair:                                         | N/A |

| Color Chart |                              |
|-------------|------------------------------|
| Number      | Color                        |
| 1           | White/Blue Stripe & Blue     |
| 2           | White/Orange Stripe & Orange |
| 3           | White/Green Stripe & Green   |
| 4           | White/Brown Stripe & Brown   |

| Outer Jacket Material                   |                     |                  |         |
|-----------------------------------------|---------------------|------------------|---------|
| Material                                | Material Trade Name | Nominal Diameter | Ripcord |
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.19 in          | Yes     |

Electrical Characteristics

| Conductor DCR      |                    |
|--------------------|--------------------|
| Max. Conductor DCR | Max. DCR Unbalance |
| 93.8 Ohm/km        | 3 %                |

| Capacitance                |                        |
|----------------------------|------------------------|
| Max. Capacitance Unbalance | Nom.Mutual Capacitance |
| 330                        | 15 pF/ft               |

| Delay           |             |                 |                                          |
|-----------------|-------------|-----------------|------------------------------------------|
| Frequency [MHz] | Max. Delay  | Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
| 100 MHz         | 538 ns/100m | 45 ns/100m      | 72%                                      |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Min. SRL (Structural Return Loss) | Max./Min. Input Impedance (unFitted) | Max./Min. Fitted Impedance |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|-----------------------------------|--------------------------------------|----------------------------|
| 1 MHz           | 2 dB/100m                         | 65.3 dB        | 62.3 dB          | 63 dB         | 60.3 dB         | 63.8 dB                 | 60.8 dB                     | 20 dB                      | 23 dB                             | 100 ± 15                             | 100 ± 15                   |
| 4 MHz           | 4.1 dB/100m                       | 56.3 dB        | 53.3 dB          | 51 dB         | 49.2 dB         | 51.7 dB                 | 48.7 dB                     | 23 dB                      | 23 dB                             | 100 ± 15                             | 100 ± 15                   |
| 8 MHz           | 5.8 dB/100m                       | 51.8 dB        | 48.8 dB          | 46 dB         | 43 dB           | 45.7 dB                 | 42.7 dB                     | 24.5 dB                    | 24.5 dB                           | 100 ± 15                             | 100 ± 15                   |
| 10 MHz          | 6.5 dB/100m                       | 50.3 dB        | 47.3 dB          | 43 dB         | 40.8 dB         | 43.8 dB                 | 40.8 dB                     | 25 dB                      | 25 dB                             | 100 ± 15                             | 100 ± 15                   |
| 16 MHz          | 8.2 dB/100m                       | 47.3 dB        | 44.3 dB          | 39 dB         | 36 dB           | 39.7 dB                 | 36.7 dB                     | 25 dB                      | 25 dB                             | 100 ± 15                             | 100 ± 15                   |
| 20 MHz          | 9.3 dB/100m                       | 45.8 dB        | 42.8 dB          | 36.5 dB       | 33.5 dB         | 37.7 dB                 | 34.7 dB                     | 25 dB                      | 25 dB                             | 100 ± 15                             | 100 ± 15                   |
| 25 MHz          | 10.4 dB/100m                      | 44.3 dB        | 41.3 dB          | 33.9 dB       | 30.9 dB         | 35.8 dB                 | 32.8 dB                     | 24.3 dB                    | 24.3 dB                           | 100 ± 15                             | 100 ± 15                   |
| 31.25 MHz       | 11.7 dB/100m                      | 42.9 dB        | 39.9 dB          | 31 dB         | 28.2 dB         | 33.9 dB                 | 30.9 dB                     | 23.6 dB                    | 23.6 dB                           | 100 ± 15                             | 100 ± 15                   |
| 62.5 MHz        | 17 dB/100m                        | 38.4 dB        | 35.4 dB          | 22 dB         | 19 dB           | 27.8 dB                 | 24.9 dB                     | 21.5 dB                    | 21.5 dB                           | 100 ± 15                             | 100 ± 15                   |
| 100 MHz         | 22 dB/100m                        | 35.3 dB        | 32.3 dB          | 14 dB         | 10.3 dB         | 23.8 dB                 | 20.8 dB                     | 20.1 dB                    | 20.1 dB                           | 100 ± 15                             | 100 ± 15                   |
| 155 MHz         | 28.1 dB/100m                      | 32.4 dB        | 29.4 dB          | 4.4 dB        | 1.4 dB          | 20.0 dB                 | 17.0 dB                     | 18.8 dB                    |                                   |                                      |                            |
| 200 MHz         | 32.4 dB/100m                      | 30.8 dB        | 27.8 dB          |               |                 | 17.8 dB                 | 14.8 dB                     | 18.0 dB                    |                                   |                                      |                            |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                          |                |
|--------------------------|----------------|
| Installation Temp Range: | 0°C To +60°C   |
| UL Temp Rating:          | 75°C           |
| Storage Temp Range:      | -20°C To +60°C |
| Operating Temp Range:    | -20°C To +75°C |

Mechanical Characteristics

|                                      |               |
|--------------------------------------|---------------|
| Bulk Cable Weight:                   | 21 lbs/1000ft |
| Max. Pull Tension:                   | 40 lbs        |
| Min Bend Radius During Installation: | 1.9 in        |
| Min Bend Radius/Minor Axis:          | 0.8 in        |

Standards

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| NEC/(UL) Compliance:                  | CMP                                                      |
| CEC/C(UL) Compliance:                 | CMP                                                      |
| IEC Compliance:                       | 11801 ed 2.2 (2011) Class D                              |
| Data Category:                        | Category 5e                                              |
| ANSI Compliance:                      | S-90-661-2012 Category 5e, ANSI/NEMA WC-63.1 Category 5e |
| TIA/EIA Compliance:                   | ANSI/TIA-568-C.2 Category 5e                             |
| IEEE Compliance:                      | IEEE 802.3bt Type 1, Type 2, Type 3                      |
| Other Compliance:                     | NEMA WC-63.1 Category 5e, ETL Verified to Category 5e    |
| Third Party Performance Verification: | Category 5e                                              |

Applicable Environmental and Other Programs

|                                        |            |
|----------------------------------------|------------|
| Environmental Space:                   | Plenum     |
| 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):  | 2009-03-12 |
| MII Order #39 (China RoHS):            | Yes        |

Suitability

|  |
|--|
|  |
|--|

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

Flammability, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | NFPA 262  |
| CSA Flammability:  | FT6       |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

|                    |        |
|--------------------|--------|
| Non-Plenum Number: | 5663U5 |
|--------------------|--------|

Variants

| Item #          | Color | UPC          |
|-----------------|-------|--------------|
| 6663U5 010U1000 | Black | 612825178842 |
| 6663U5 010U500  | Black | 612825178859 |

Product Notes

|        |                                                                                                                                                                                                                                       |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Jacket sequentially marked at 2 ft. intervals. Thrid party verified to TIA/EIA-568-B.2, Category 5e. |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.350 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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