



**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 |
|----------------------|--------------------------------------------------|

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9