

**5663U5 Multi-Conductor - Minimally Compliant Cat 5e for Video, Sound and Security Applications**

For more Information  
please call

1-800-Belden1

**Description:**

24 AWG solid bare copper conductors, polyolefin insulation, twisted pairs, rip cord, PVC jacket.

**Usage (Overall)**

Suitable Applications: Video, Sound and Security

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 24  | Solid     | BC - Bare Copper   |

**Insulation**

Insulation Material:

| Insulation Material |
|---------------------|
| PO - Polyolefin     |

**Outer Shield**

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

**Overall Cable**

Overall Nominal Diameter: 0.190 in.

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

Storage Temperature Range: -20°C To +60°C

Installation Temperature Range: 0°C To +60°C

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 19 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.900 in.

## 5663U5 Multi-Conductor - Minimally Compliant Cat 5e for Video, Sound and Security Applications

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| NEC/(UL) Specification:               | CMR                                                  |
| NEC Articles:                         | 800                                                  |
| CEC/C(UL) Specification:              | CMG                                                  |
| Other Standards:                      | 11801 Category 5                                     |
| 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): | 03/12/2009                                           |
| EU Directive 2002/96/EC (WEEE):       | Yes                                                  |
| 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-63.1 Category 5e, UL verified to Category 5e |

## Flame Test

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| UL Flame Test:  | UL1666 Riser, UL1685 FT4/IEEE 1202 Vertical Tray Flame Test |
| CSA Flame Test: | FT4                                                         |

## Suitability

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | No  |
| Suitability - Aerial:  | No  |
| Suitability - Burial:  | No  |
| Sunlight Resistance:   | No  |
| Oil Resistance:        | No  |
| Non-halogenated:       | No  |

## Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 6663U5 |

## Electrical Characteristics (Overall)

## Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m): 330

## Nominal Velocity of Propagation:

VP (%)

70

## Maximum Delay:

Delay (ns/100 m)

538 @ 100MHz

## Max. Delay Skew:

Delay Skew (ns/100 m)

45

## Maximum Conductor DC Resistance:

**5663U5 Multi-Conductor - Minimally Compliant Cat 5e for Video, Sound and Security Applications****DCR @ 20°C (Ohm/100 m)**

9.38

**Max. Operating Voltage - UL:****Voltage**

300 V RMS

**Maximum DCR Unbalanced:****DCR Unbalance @ 20°C (%)**

3

**Electrical Characteristics-Premise (Overall)****Premise Cable Electrical Table 1:**

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|
| 1           | 2.000                       | 65.3           | 62.3             | 63.0          | 60.3            | 20.000      |
| 4           | 4.100                       | 56.3           | 53.3             | 51.0          | 49.2            | 23.000      |
| 8           | 5.800                       | 51.8           | 48.8             | 46.0          | 43.0            | 24.500      |
| 10          | 6.500                       | 50.3           | 47.3             | 43.0          | 40.8            | 25.000      |
| 16          | 8.200                       | 47.3           | 44.3             | 39.0          | 36.0            | 25.000      |
| 20          | 9.300                       | 45.8           | 42.8             | 36.5          | 33.5            | 25.000      |
| 25          | 10.400                      | 44.3           | 41.3             | 33.9          | 30.9            | 24.300      |
| 31.25       | 11.700                      | 42.9           | 39.9             | 31.0          | 28.2            | 23.600      |
| 62.5        | 17.000                      | 38.4           | 35.4             | 22.0          | 19.0            | 21.500      |
| 100         | 22.000                      | 35.3           | 32.3             | 14.0          | 10.3            | 20.100      |

**Premise Cable Electrical Table 2:**

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|--------------------|
| 1           | 100 ± 15                     | 63.8             | 60.8               |
| 4           | 100 ± 15                     | 51.7             | 48.7               |
| 8           | 100 ± 15                     | 45.7             | 42.7               |
| 10          | 100 ± 15                     | 43.8             | 40.8               |
| 16          | 100 ± 15                     | 39.7             | 36.7               |
| 20          | 100 ± 15                     | 37.7             | 34.7               |
| 25          | 100 ± 15                     | 35.8             | 32.8               |
| 31.25       | 100 ± 15                     | 33.9             | 30.9               |
| 62.5        | 100 ± 15                     | 27.8             | 24.9               |
| 100         | 100 ± 15                     | 23.8             | 20.8               |

**Notes (Overall)**

**Notes:** Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc       |
|-----------------|----------|-------------|-------|-------|-----------------|
| 5663U5 009U1000 | 1,000 FT | 20.000 LB   | WHITE |       | 4 PR #24 PO PVC |
| 5663U5 010U1000 | 1,000 FT | 20.000 LB   | BLACK |       | 4 PR #24 PO PVC |
| 5663U5 010U500  | 500 FT   | 10.500 LB   | BLACK |       | 4 PR #24 PO PVC |

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