

3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

23 AWG Solid Bare Copper Bonded-Pair Conductors, FEP Insulation, X-Spline Center Member, Rip Cord, Flamarrest® PVC jacket.

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 23 | Solid | BC - Bare Copper |

Total Number of Conductors: 8

Insulation

Insulation Material:

| Insulation Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material | Nom. Wall Thickness (in.) |
|-------------------------|---------------------------------------|---------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 0.018 |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.235 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Patented X-Spline Center Member

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 +75°C

Installation Temperature Range: +5°C To +50°C

3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | 0°C To +75°C |
| UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 32 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 50 lbs. |
| Min. Bend Radius/Minor Axis: | 1 in. |
| Min. Bend/Installation: | 2.400 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|-------------------------------------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| Other Standards: | ISO/IEC 11801 ed 2.1 (2008) Class E |
| 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): | 04/03/2009 |
| 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 |
| Telecommunications Standards: | Category 6 - TIA 568.C.2 |
| Other Specification: | UL Verified to Category 6 |

Applicable Patents:

| Country | Patent |
|---------|---------|
| US | 5606151 |
| US | 5734126 |
| US | 6074503 |
| US | 7663061 |
| US | 7977575 |

Flame Test

| | |
|-------------------|----------|
| UL Flame Test: | NFPA 262 |
| C(UL) Flame Test: | FT6 |

Suitability

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

Plenum/Non-Plenum

| | |
|--------------------|------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 3632 |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| Capacitance (pF/ft) |
|---------------------|
| 15.5 |

3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

Maximum Capacitance Unbalance (pF/100 m): 90

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 72.000 |

Maximum Delay:

| | |
|--------------------|-------------------------|
| Freq. (MHz) | Delay (ns/100 m) |
| 100.000 | 537.600 |

Typical Delay Skew:

| |
|---------------------------|
| Delay Skew (ns/ft) |
| 30.000 |

Maximum Conductor DC Resistance:

| |
|-------------------------------|
| DCR @ 20°C (Ohm/100 m) |
| 7.700 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Maximum DCR Unbalanced:

| |
|---------------------------------|
| DCR Unbalance @ 20°C (%) |
| 3.000 |

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) | Min. SRL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|---------------|
| 0.772 | 1.800 | 81.00 | 79.00 | 79.2 | 77.2 | | |
| 1 | 2.000 | 79.31 | 77.31 | 77.3 | 75.3 | 20.000 | 27.0 |
| 4 | 3.700 | 70.28 | 68.28 | 66.6 | 64.6 | 23.000 | 27.0 |
| 8 | 5.200 | 65.77 | 63.77 | 60.6 | 58.6 | 24.500 | 27.0 |
| 10 | 5.800 | 64.31 | 62.31 | 58.5 | 56.5 | 25.000 | 27.0 |
| 16 | 7.400 | 61.25 | 59.25 | 53.9 | 51.9 | 25.000 | 27.0 |
| 20 | 8.300 | 59.8 | 57.80 | 51.5 | 49.5 | 25.000 | 27.0 |
| 25 | 9.300 | 58.35 | 56.35 | 49.1 | 47.1 | 25.000 | 26.0 |
| 31.25 | 10.400 | 56.89 | 54.89 | 46.5 | 44.5 | 25.000 | 25.1 |
| 62.5 | 15.000 | 52.38 | 50.38 | 37.4 | 35.4 | 25.000 | 22.1 |
| 100 | 19.300 | 49.31 | 47.31 | 30.0 | 28.0 | 25.000 | 20.0 |
| 155 | 24.600 | 46.46 | 44.46 | 21.9 | 19.9 | 22.800 | 18.1 |
| 200 | 28.300 | 44.80 | 42.80 | 16.5 | 14.5 | 21.600 | 17.0 |
| 250 | 32.100 | 43.35 | 41.35 | 11.2 | 9.2 | 20.500 | 16.2 |
| 300 | 35.600 | 42.16 | 40.16 | 6.5 | 4.5 | 20.100 | 15.2 |
| 350 | 38.900 | 41.15 | 39.15 | 2.3 | 0.3 | 19.800 | 14.6 |
| 400 | 42.000 | 40.28 | 38.28 | | | 19.500 | 14.0 |
| 450 | 45.000 | 39.52 | 37.52 | | | 18.900 | 13.5 |
| 500 | 47.900 | 38.83 | 36.83 | | | 18.400 | 13.0 |
| 550 | 50.600 | 38.21 | 36.21 | | | 18.000 | 12.6 |
| 600 | 53.300 | 37.64 | 35.64 | | | 17.500 | 12.2 |
| 650 | 55.900 | 37.12 | 35.12 | | | 17.200 | 11.9 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ACRF (dB) | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|----------------|------------------|
| .772 | | | 75.0 | 72.0 |
| 1 | 100 ± 12 | 100 ± 12 | 72.8 | 69.8 |
| 4 | 100 ± 12 | 100 ± 10.4 | 60.8 | 57.8 |
| 8 | 100 ± 12 | 100 ± 8 | 54.7 | 51.7 |
| 10 | 100 ± 12 | 100 ± 7.3 | 52.8 | 49.8 |
| 16 | 100 ± 12 | 100 ± 5.7 | 48.7 | 45.7 |
| 20 | 100 ± 12 | 100 ± 5 | 46.8 | 43.8 |
| 25 | 100 ± 15 | 100 ± 5 | 44.8 | 41.8 |
| 31.25 | 100 ± 15 | 100 ± 5 | 42.9 | 39.9 |
| 62.5 | 100 ± 15 | 100 ± 5 | 36.9 | 33.9 |

3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

| | | | | |
|-----|----------|---------|------|------|
| 100 | 100 ± 15 | 100 ± 5 | 32.8 | 29.8 |
| 155 | 100 ± 15 | 100 ± 5 | 28.9 | 25.9 |
| 200 | 100 ± 15 | 100 ± 5 | 26.8 | 23.8 |
| 250 | 100 ± 20 | 100 ± 5 | 24.8 | 21.8 |
| 300 | 100 ± 20 | 100 ± 5 | 23.3 | 20.3 |
| 350 | 100 ± 22 | 100 ± 5 | 21.9 | 18.9 |
| 400 | 100 ± 22 | 100 ± 5 | 20.8 | 17.8 |
| 450 | 100 ± 22 | 100 ± 5 | 19.7 | 16.7 |
| 500 | 100 ± 22 | 100 ± 5 | 18.8 | 15.8 |
| 550 | 100 ± 22 | 100 ± 5 | 18.0 | 15.0 |
| 600 | 100 ± 22 | 100 ± 5 | 17.2 | 14.2 |
| 650 | 100 ± 22 | 100 ± 5 | 16.5 | 13.5 |

Premise Cable Electrical Table 4:

| Frequency (MHz) | Min. TCL (dB) | Min. ELTCTL (dB) |
|-----------------|---------------|------------------|
| 0.772 | 42.000 | 37.200 |
| 1.000 | 42.000 | 35.000 |
| 4.000 | 42.000 | 23.000 |
| 8.000 | 42.000 | 16.900 |
| 10.000 | 42.000 | 15.000 |
| 16.000 | 40.000 | 10.900 |
| 20.000 | 39.000 | 9.000 |
| 25.000 | 38.000 | 7.000 |
| 31.250 | 37.100 | |
| 62.500 | 34.000 | |
| 100.000 | 32.000 | |
| 155.000 | 30.100 | |
| 200.000 | 29.000 | |
| 250.000 | 28.000 | |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft./1m intervals. Third party verified to ANSI/TIA-568-C.2 Category 6. Values above 350MHz are for engineering information only.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|---------------------------|
| 3633 D15A1000 | 1,000 FT | 35.000 LB | BLUE | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 D15U1000 | 1,000 FT | 32.000 FT | BLUE | | CAT6E 4PRB U/UTP CMP BOX |
| 3633 D15I1000 | 1,000 FT | 33.000 LB | BLUE | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 002A1000 | 1,000 FT | 35.000 LB | RED | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 002I1000 | 1,000 FT | 33.000 LB | RED | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 003A1000 | 1,000 FT | 35.000 LB | ORANGE | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 003I1000 | 1,000 FT | 33.000 LB | ORANGE | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 004A1000 | 1,000 FT | 35.000 LB | YELLOW | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 004I1000 | 1,000 FT | 33.000 LB | YELLOW | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 005A1000 | 1,000 FT | 35.000 LB | GREEN, DARK | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 005I1000 | 1,000 FT | 33.000 LB | GREEN, DARK | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 008A1000 | 1,000 FT | 35.000 LB | GRAY | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 008U1000 | 1,000 FT | 32.000 FT | GRAY | | CAT6E 4PRB U/UTP CMP BOX |
| 3633 008I1000 | 1,000 FT | 33.000 LB | GRAY | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 009A1000 | 1,000 FT | 35.000 LB | WHITE | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 009U1000 | 1,000 FT | 32.000 FT | WHITE | | CAT6E 4PRB U/UTP CMP BOX |
| 3633 009I1000 | 1,000 FT | 33.000 LB | WHITE | C | CAT6E 4PRB U/UTP CMP REEL |
| 3633 010A1000 | 1,000 FT | 35.000 LB | BLACK | C | CAT6E 4PRB U/UTP CMP RIB |
| 3633 010I1000 | 1,000 FT | 33.000 LB | BLACK | C | CAT6E 4PRB U/UTP CMP REEL |

Notes:
C = CRATE REEL PUT-UP.

3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

Revision Number: 6 Revision Date: 07-11-2012

© 2012 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренеспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru