

10GXS13 Multi-Conductor - Category 6A Unbonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

Category 6A Enhanced (625MHz), 4-Unbonded-Pair, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, FEP Insulation, Patented EquiSpline™ & EquiBlock™ Technologies, Ripcord, Flamarrest® Jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, 10 Gigabit Ethernet, Wireless, Wi-Fi, 100Base TX, 100Base VG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio AES51, RS-422, Noisy Environments, PoE, PoE Plus

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 |

Separator

Separator Material: Patented EquiSpline Central Member

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest (R) | LS-PVC - Low Smoke Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.265 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Patent Pending EquiBlock Barrier Tape

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

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75C

10GXS13 Multi-Conductor - Category 6A Unbonded-Pair Cable

| | |
|-----------------------------------|-----------------|
| Bulk Cable Weight: | 39 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 40 lbs. |
| Min. Bend Radius/Minor Axis: | 1.100 in. |
| Min. Bend/Installation: | 2.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|--|
| NEC/(UL) Specification: | CMP |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CMP |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| Other Standards: | ISO/IEC 11801 ed 2 Amendment 2:2010 Class EA |
| 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): | 03/31/2015 |
| 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 6A - TIA 568.C.2 |
| ANSI Specification: | ANSI/TIA 568-C.2 Category 6A |

Applicable Patents:

| |
|--|
| Country |
| www.belden.com/p |

Flame Test

| | |
|-------------------|---|
| UL Flame Test: | NFPA 262 Plenum Flame Test (UL910)(FT6) |
| C(UL) Flame Test: | FT6 |
| CSA Flame Test: | FT6 |

Suitability

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

Plenum/Non-Plenum

| | |
|--------------------|---------|
| Plenum (Y/N): | Yes |
| Plenum Number: | 10GXS13 |
| Non-Plenum Number: | 10GXS12 |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| |
|---------------------|
| Capacitance (pF/ft) |
| 17.000 |

Maximum Capacitance Unbalance (pF/100 m): 90

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 69.000 |

Maximum Delay:

| |
|------------------|
| Delay (ns/100 m) |
| 537.000 |

Typical Delay Skew:

10GXS13 Multi-Conductor - Category 6A Unbonded-Pair Cable

Delay Skew (ns/ft)

30.000

Max. Delay Skew:

Delay Skew (ns/100 m)

45.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

7.500

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

| Description | DCR Unbalance @ 20°C (%) |
|------------------------|--------------------------|
| Conductor-to-Conductor | 3.000 |
| Pair-to-Pair | 5.000 |

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. PSNEXT (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|------------------|-----------------|-------------|
| 1 | 2.100 | 75.3 | 73.2 | 20.000 |
| 4 | 3.800 | 66.3 | 62.5 | 23.000 |
| 8 | 5.300 | 61.8 | 56.5 | 24.500 |
| 10 | 5.900 | 60.3 | 54.4 | 25.000 |
| 16 | 7.400 | 57.2 | 49.8 | 25.000 |
| 20 | 8.300 | 55.8 | 47.5 | 25.000 |
| 25 | 9.300 | 54.3 | 45.0 | 24.300 |
| 31.25 | 10.400 | 52.9 | 42.5 | 23.600 |
| 62.5 | 14.800 | 48.4 | 33.6 | 21.500 |
| 100 | 18.900 | 45.3 | 26.4 | 20.100 |
| 200 | 27.000 | 40.8 | 13.8 | 18.000 |
| 250 | 30.400 | 39.3 | 9.0 | 17.300 |
| 300 | 33.500 | 38.1 | 4.6 | 16.800 |
| 350 | 36.300 | 37.1 | 0.8 | 16.300 |
| 400 | 39.000 | 36.3 | | 15.900 |
| 450 | 41.500 | 35.5 | | 15.500 |
| 500 | 43.900 | 34.8 | | 15.200 |
| 550 | 46.200 | 34.2 | | 14.900 |
| 600 | 48.400 | 33.6 | | 14.700 |
| 625 | 49.500 | 33.4 | | 14.500 |
| 750 | 54.700 | 32.2 | | 14.000 |
| 860 | 58.900 | 31.3 | | 13.600 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|------------------|
| 1 | 100 ± 15 | 105 ± 10 | 74.8 |
| 4 | 100 ± 15 | 100 ± 15 | 62.8 |
| 8 | 100 ± 15 | 100 ± 15 | 56.7 |
| 10 | 100 ± 15 | 100 ± 15 | 54.8 |
| 16 | 100 ± 15 | 100 ± 15 | 50.7 |
| 20 | 100 ± 15 | 100 ± 15 | 48.8 |
| 25 | 100 ± 15 | 100 ± 15 | 46.8 |
| 31.25 | 100 ± 15 | 100 ± 10 | 44.9 |
| 62.5 | 100 ± 15 | 100 ± 10 | 38.9 |
| 100 | 100 ± 15 | 100 ± 10 | 34.8 |
| 200 | 100 ± 22 | 100 ± 10 | 28.8 |
| 250 | 100 ± 32 | 100 ± 10 | 26.8 |
| 300 | 100 ± 32 | 100 ± 10 | 25.3 |
| 350 | 100 ± 32 | 100 ± 10 | 23.9 |
| 400 | 100 ± 32 | 100 ± 10 | 22.8 |
| 450 | 100 ± 32 | 100 ± 10 | 21.7 |
| 500 | 100 ± 32 | 100 ± 10 | 20.8 |
| 625 | 100 ± 32 | 100 ± 10 | 18.9 |
| 750 | 100 ± 32 | 100 ± 10 | 17.3 |
| 860 | 100 ± 32 | 100 ± 10 | 16.1 |

Premise Cable Electrical Table 4:

| Frequency (MHz) | Min. PSANEXT (dB) | Min. PSAACRF (dB) | Min. TCL (dB) | Min. ELTCTL (dB) |
|-----------------|-------------------|-------------------|---------------|------------------|
|-----------------|-------------------|-------------------|---------------|------------------|

10GXS13 Multi-Conductor - Category 6A Unbonded-Pair Cable

| | | | | |
|---------|--------|--------|--------|--------|
| 1.000 | 75.000 | 77.000 | 40.000 | 35.000 |
| 4.000 | 75.000 | 76.200 | 40.000 | 23.000 |
| 8.000 | 75.000 | 70.100 | 40.000 | 16.900 |
| 10.000 | 75.000 | 68.200 | 40.000 | 15.000 |
| 16.000 | 75.000 | 64.100 | 38.000 | 10.900 |
| 20.000 | 75.000 | 62.200 | 37.000 | 9.000 |
| 25.000 | 75.000 | 60.200 | 36.000 | 7.000 |
| 31.250 | 75.000 | 58.300 | 35.100 | 5.100 |
| 62.500 | 73.600 | 52.300 | 32.000 | |
| 100.000 | 70.500 | 48.200 | 30.000 | |
| 200.000 | 66.000 | 42.200 | 27.000 | |
| 250.000 | 64.500 | 40.200 | 26.000 | |
| 300.000 | 63.300 | 38.700 | 25.200 | |
| 350.000 | 62.300 | 37.300 | 24.600 | |
| 400.000 | 61.500 | 36.200 | 24.000 | |
| 450.000 | 60.700 | 35.100 | 23.500 | |
| 500.000 | 60.000 | 34.200 | 23.000 | |
| 550.000 | 59.400 | 33.400 | | |
| 600.000 | 58.800 | 32.600 | | |
| 625.000 | 58.600 | 32.300 | | |
| 750.000 | 57.400 | 30.700 | | |
| 860.000 | 56.500 | 29.500 | | |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party channel verified to TIA/EIA-568-C.2, Category 6A. Meets Component requirements for TIA 568-C.2 Category 6A Horizontal Cable, Values above 625MHz for Engineering Information Only

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|-------------|-------|--------------------------|
| 10GXS13 D151000 | 1,000 FT | 43.000 LB | BLUE | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0021000 | 1,000 FT | 43.000 LB | RED | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0031000 | 1,000 FT | 43.000 LB | ORANGE | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0041000 | 1,000 FT | 43.000 LB | YELLOW | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0051000 | 1,000 FT | 43.000 LB | GREEN, DARK | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0071000 | 1,000 FT | 43.000 LB | VIOLET | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0081000 | 1,000 FT | 43.000 LB | GRAY | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0091000 | 1,000 FT | 43.000 LB | WHITE | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13 0101000 | 1,000 FT | 43.000 LB | BLACK | | CAT6A 4PR U/UTP CMP REEL |
| 10GXS13D15A1000 | 1,000 FT | 46.000 LB | BLUE | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13002A1000 | 1,000 FT | 46.000 LB | RED | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13003A1000 | 1,000 FT | 46.000 LB | ORANGE | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13004A1000 | 1,000 FT | 46.000 LB | YELLOW | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13005A1000 | 1,000 FT | 46.000 LB | GREEN, DARK | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13007A1000 | 1,000 FT | 46.000 LB | VIOLET | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13008A1000 | 1,000 FT | 46.000 LB | GRAY | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13009A1000 | 1,000 FT | 46.000 LB | WHITE | | CAT6A 4PR U/UTP CMP RIB |
| 10GXS13010A1000 | 1,000 FT | 46.000 LB | BLACK | | CAT6A 4PR U/UTP CMP RIB |

Revision Number: 0 Revision Date: 04-01-2015

© 2015 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 «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.