



Product: [10GXS13](#) 

10GXS Category 6A Enhanced Cable, 4 Pair, U/UTP, CMP

Product Description

10GXS Category 6A Enhanced Premise Horizontal Cable (625MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Plenum-CMP, Flamarrest® PVC-LS Jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Premise Horizontal Cable, Ethernet up to 10GBASE-T, Wi-Fi 6, Wi-Fi 5, PoE++, PoE+, PoE, Noisy Environments, Data Center EoR and MoR, Network Backbone, HDBaseT, HDBaseT 4K UHD |
| Patent: | This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents . |

Construction Details

Conductor

| Size | Stranding | Material | No. of Pairs |
|--------|-----------|------------------|--------------|
| 23 AWG | Solid | BC - Bare Copper | 4 |

Insulation

| Material | Color Code |
|--------------------------------------|--|
| FEP - Fluorinated Ethylene Propylene | White & Blue, White & Orange, White & Green, White & Brown |

Outer Jacket

| Separator | Material | Material Trade Name | Nom. Diameter | Ripcord |
|---|--------------------------|---------------------|--------------------|---------|
| Center Member (Patented EquiSpline®), EquiBlock™ Barrier Technology | PVC - Polyvinyl Chloride | Flamarrest® | 0.265 in (6.73 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.265 in (6.73 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Capacitance Unbalance |
|---------------------------|----------------------------|
| 82 Ohm/km (25 Ohm/1000ft) | 45 pF/100m |

Delay

| Frequency | Max. Delay | Max. Delay Skew | Nom. Velocity of Prop. | Typical Delay Skew |
|-----------|---------------|-----------------|------------------------|--------------------|
| 100 MHz | 537.6 ns/100m | 45 ns/100m | 69% | 30 ns/100m |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. PSNEXT [dB] | Min. PSACR [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Max./Min. Input Impedance (unFitted) [Ohm] | Max./Min. Fitted Impedance [Ohm] | Min. PSANEXT [dB] | Min. PSAACRF [dB] | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|-----------------------------------|------------------|-----------------|-----------------------------|----------------------------|--|----------------------------------|-------------------|-------------------|---------------|------------------|
| 1 | 2.1 dB/100m | 75.3 | 73.2 | 74.8 | 20.0 | 100 ± 15 | 105 ± 10 | 75.0 | 77.0 | 40.0 | 35.0 |
| 4 | 3.8 dB/100m | 66.3 | 62.5 | 62.8 | 23.0 | 100 ± 15 | 100 ± 15 | 75.0 | 76.2 | 40.0 | 23.0 |
| 8 | 5.3 dB/100m | 61.8 | 56.5 | 56.7 | 24.5 | 100 ± 15 | 100 ± 15 | 75.0 | 70.1 | 40.0 | 16.9 |
| 10 | 5.9 dB/100m | 60.3 | 54.4 | 54.8 | 25.0 | 100 ± 15 | 100 ± 15 | 75.0 | 68.2 | 40.0 | 15.0 |
| 16 | 7.4 dB/100m | 57.2 | 49.8 | 50.7 | 25.0 | 100 ± 15 | 100 ± 15 | 75.0 | 64.1 | 38.0 | 10.9 |
| 20 | 8.3 dB/100m | 55.8 | 47.5 | 48.8 | 25.0 | 100 ± 15 | 100 ± 15 | 75.0 | 62.2 | 37.0 | 9.0 |
| 25 | 9.3 dB/100m | 54.3 | 45.0 | 46.8 | 24.3 | 100 ± 15 | 100 ± 15 | 75.0 | 60.2 | 36.0 | 7.0 |
| 31.25 | 10.4 dB/100m | 52.9 | 42.5 | 44.9 | 23.6 | 100 ± 15 | 100 ± 10 | 75.0 | 58.3 | 35.1 | 5.1 |

| | | | | | | | | | | | |
|------|--------------|------|------|------|------|----------|----------|------|------|------|--|
| 62.5 | 14.8 dB/100m | 48.4 | 33.6 | 38.9 | 21.5 | 100 ± 15 | 100 ± 10 | 73.6 | 52.3 | 32.0 | |
| 100 | 18.9 dB/100m | 45.3 | 26.4 | 34.8 | 20.1 | 100 ± 15 | 100 ± 10 | 70.5 | 48.2 | 30.0 | |
| 200 | 27.0 dB/100m | 40.8 | 13.8 | 28.8 | 18.0 | 100 ± 22 | 100 ± 10 | 66.0 | 42.2 | 27.0 | |
| 250 | 30.4 dB/100m | 39.3 | 9.0 | 26.8 | 17.3 | 100 ± 32 | 100 ± 10 | 64.5 | 40.2 | 26.0 | |
| 300 | 33.5 dB/100m | 38.1 | 4.6 | 25.3 | 16.8 | 100 ± 32 | 100 ± 10 | 63.3 | 38.7 | 25.2 | |
| 350 | 36.3 dB/100m | 37.1 | 0.8 | 23.9 | 16.3 | 100 ± 32 | 100 ± 10 | 62.3 | 37.3 | 24.6 | |
| 400 | 39.0 dB/100m | 36.3 | | 22.8 | 15.9 | 100 ± 32 | 100 ± 10 | 61.5 | 36.2 | 24.0 | |
| 450 | 41.5 dB/100m | 35.5 | | 21.7 | 15.5 | 100 ± 32 | 100 ± 10 | 60.7 | 35.1 | 23.5 | |
| 500 | 43.9 dB/100m | 34.8 | | 20.8 | 15.2 | 100 ± 32 | 100 ± 10 | 60.0 | 34.2 | 23.0 | |
| 550 | 46.2 dB/100m | 33.2 | | 20.0 | 14.9 | 100 ± 32 | 100 ± 10 | 59.4 | 33.4 | | |
| 600 | 48.4 dB/100m | 32.6 | | 19.2 | 14.7 | 100 ± 32 | 100 ± 10 | 58.8 | 32.6 | | |
| 625 | 49.5 dB/100m | 32.4 | | 18.9 | 14.5 | 100 ± 32 | 100 ± 10 | 58.6 | 32.3 | | |
| 750 | 54.7 dB/100m | 32.2 | | 17.3 | 14.0 | | | 57.4 | 30.7 | | |
| 860 | 58.9 dB/100m | 31.3 | | 16.1 | 13.6 | | | 56.5 | 29.5 | | |

Voltage

| UL Voltage Rating |
|---------------------------|
| 300 V (CMP), 300 V (CL3P) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating | Installation | Storage |
|----------------|----------------|--------------|----------------|
| 105°C | -20°C To +75°C | 0°C To +50°C | -20°C To +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-------------------|-------------------|
| 1.25 in (31.8 mm) | 2.75 in (69.9 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 37 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Plenum, Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca; CPR UKCA Class: Eca |
| NEC / UL Compliance: | Article 800, CMP, CMP-LP (0.7A), CL3P-LP (0.7A) |
| CEC / C(UL) Compliance: | CMP |
| ICEA Compliance: | S-116-732 |
| IEEE Compliance: | IEEE 802.3bt Type 1, Type 2, Type 3, Type 4 |
| NEMA Compliance: | ANSI/NEMA WC-66 |
| Data Category: | Category 6A |
| TIA/EIA Compliance: | ANSI/TIA-568.2-D Category 6A |
| ISO/IEC Compliance: | ISO/IEC 11801-1, IEC 61156-5 |
| CENELEC Compliance: | Segregation class according EN50174-2 = a |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16 |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 10GXS12 |

Product Notes

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| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 625 MHz are for Engineering Information Only. Print Includes Descending Footage/Meter Markings from Max. Put-Up Length to 0. |
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History

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| Update and Revision: | Revision Number: 0.303 Revision Date: 09-07-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|-----------------|--------|--------------|----------|--------------|
| 10GXS13 0101000 | Black | Reel | 1,000 ft | 612825004035 |
| 10GXS13010A1000 | Black | Reel-in-Box | 1,000 ft | 612825004134 |
| 10GXS13010U1000 | Black | Unreel | 1,000 ft | |
| 10GXS13010Z1000 | Black | ReelTuff Box | 1,000 ft | |
| 10GXS13 D151000 | Blue | Reel | 1,000 ft | 612825004042 |
| 10GXS13D15A1000 | Blue | Reel-in-Box | 1,000 ft | 612825004059 |
| 10GXS13D15U1000 | Blue | Unreel | 1,000 ft | |
| 10GXS13D15Z1000 | Blue | ReelTuff Box | 1,000 ft | |
| 10GXS13 0081000 | Gray | Reel | 1,000 ft | 612825004011 |
| 10GXS13008A1000 | Gray | Reel-in-Box | 1,000 ft | 612825004110 |
| 10GXS13008U1000 | Gray | Unreel | 1,000 ft | |
| 10GXS13 0051000 | Green | Reel | 1,000 ft | 612825003991 |
| 10GXS13005A1000 | Green | Reel-in-Box | 1,000 ft | 612825004097 |
| 10GXS13005U1000 | Green | Unreel | 1,000 ft | |
| 10GXS13 0031000 | Orange | Reel | 1,000 ft | 612825003977 |
| 10GXS13003A1000 | Orange | Reel-in-Box | 1,000 ft | 612825004073 |
| 10GXS13003U1000 | Orange | Unreel | 1,000 ft | |
| 10GXS13 0071000 | Purple | Reel | 1,000 ft | 612825004004 |
| 10GXS13007A1000 | Purple | Reel-in-Box | 1,000 ft | 612825004103 |
| 10GXS13007U1000 | Purple | Unreel | 1,000 ft | |
| 10GXS13 0021000 | Red | Reel | 1,000 ft | 612825003960 |
| 10GXS13002A1000 | Red | Reel-in-Box | 1,000 ft | 612825004066 |
| 10GXS13002U1000 | Red | Unreel | 1,000 ft | |
| 10GXS13 0091000 | White | Reel | 1,000 ft | 612825004028 |
| 10GXS13009A1000 | White | Reel-in-Box | 1,000 ft | 612825004127 |
| 10GXS13009U1000 | White | Unreel | 1,000 ft | |
| 10GXS13 0041000 | Yellow | Reel | 1,000 ft | 612825003984 |
| 10GXS13004A1000 | Yellow | Reel-in-Box | 1,000 ft | 612825004080 |
| 10GXS13004U1000 | Yellow | Unreel | 1,000 ft | |

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