

Base Product



InstaPATCH® Cu GigaSPEED X10D® F/UTP Plenum Copper Cable, single row standard density outlet to single row standard density outlet, 6 links

Product Classification

| | |
|------------------------------|---|
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
| Portfolio | CommScope® |
| Product Type | Copper trunk cable assembly |
| Product Brand | GigaSPEED X10D® InstaPATCH® Cu |

General Specifications

| | |
|---------------------------------------|-------------------------------|
| ANSI/TIA Category | 6A |
| Cable Type | F/UTP (shielded) |
| Conductor Type | Solid |
| Interface, Connector A | Information outlet |
| Interface Feature, connector A | Single row Standard density |
| Interface, Connector B | Information outlet |
| Interface Feature, connector B | Single row Standard density |
| Link Count | 6 |
| Wiring | T568B |

Dimensions

| | |
|---|----------|
| Cable Assembly Length Range (m) | 5 – 90 |
| Cable Assembly Length Range (ft) | 17 – 295 |

Electrical Specifications

| | |
|-------------------------------|---------|
| dc Resistance, maximum | 0.3 ohm |
| Safety Voltage Rating | 300 V |

Ordering Tree

CDAAB | IP6A-06PFTP-01S-01S

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | |
| C | A | A | A | C | - | 1 | 1 | H | A | B | B | F | 0 | 5 | 0 |

| Cable Type | |
|------------|-------------------------------------|
| A | Cat 6A X10D – U/UTP (Plenum) |
| B | Cat 6A X10D – U/UTP (Riser) |
| C | Cat 6A X10D – U/UTP (LSZH) |
| D | Cat 6A X10D – F/UTP (Plenum) |
| E | Cat 6A X10D – F/UTP (Riser) |
| F | Cat 6A X10D – F/UTP (LSZH) |
| G | Cat 6 XL – U/UTP (Plenum) |
| H | Cat 6 XL – U/UTP (Riser) |
| J | Cat 6 XL – U/UTP (LSZH) |
| Q | Cat 6A X10D – S/FTP (LSZH) |
| R | Cat 6 – U/UTP Class B Rated (LSZH) |
| S | Cat 6A – U/UTP Class B Rated (LSZH) |
| Y | Cat 6A X10D SD – U/UTP (Riser) |

| Connector B | |
|-------------|--|
| A | Outlet* – Single Row Standard Density |
| B | Outlet* – Dual Row Standard Density |
| C | Outlet* – Dual Row High Density |
| G | RJ45 Plug* – Single Row Standard Density |
| H | RJ45 Plug* – Dual Row Standard Density |
| J | RJ45 Plug* – Dual Row High Density |
| N | 1100 Module |
| R | 360 1100 Evolve Module |
| S | OneLink 2x6 |
| T | OneLink 2x4 |

| Orientation A | |
|---------------|-----------------------|
| 1 | Trident Series Flat |
| 2 | Right Paired Flat |
| 3 | Right Series Flat |
| 4 | Left Paired Flat |
| 5 | Left Series Flat |
| 6 | Trident Paired Flat |
| A | Trident Series Angled |
| B | Right Paired Angled |
| C | Right Series Angled |
| D | Left Paired Angled |
| E | Left Series Angled |
| F | Trident Paired Angled |

| Orientation B | |
|---------------|-----------------------|
| 1 | Trident Series Flat |
| 2 | Right Paired Flat |
| 3 | Right Series Flat |
| 4 | Left Paired Flat |
| 5 | Left Series Flat |
| 6 | Trident Paired Flat |
| A | Trident Series Angled |
| B | Right Paired Angled |
| C | Right Series Angled |
| D | Left Paired Angled |
| E | Left Series Angled |
| F | Trident Paired Angled |
| X | Not Applicable |

| Link | |
|------|----|
| B | 6 |
| C | 8 |
| D | 12 |
| E | 16 |
| F | 18 |
| G | 24 |

| Outlet Color | |
|--------------|----------------|
| 0 | Not Applicable |
| 1 | Black (BK) |
| 2 | Blue (BL) |
| B | White (WH) |

| UOM | |
|-----|-------|
| F | Foot |
| M | Meter |

| Length | |
|--------|-----|
| 12 | XXX |

| Connector A | |
|-------------|--|
| A | Outlet* – Single Row Standard Density |
| B | Outlet* – Dual Row Standard Density |
| C | Outlet* – Dual Row High Density |
| G | RJ45 Plug* – Single Row Standard Density |
| H | RJ45 Plug* – Dual Row Standard Density |
| J | RJ45 Plug* – Dual Row High Density |
| N | 1100 Module |
| R | 360 1100 Evolve Module |
| S | OneLink 2x6 |
| T | OneLink 2x4 |
| X | Unterminated |

| Bundling | |
|----------|-------------|
| H | Hook-n-loop |
| S | Sleaving |

| Jacket Color | |
|--------------|------------|
| B | White (WH) |
| C | Slate (SL) |
| Z | Blue (BL) |

| Labeling | |
|----------|---------------|
| A | Generic Label |

| Cable Type | |
|------------|-------------------------------------|
| A | Cat 6A X10D – U/UTP (Plenum) |
| B | Cat 6A X10D – U/UTP (Riser) |
| C | Cat 6A X10D – U/UTP (LSZH) |
| D | Cat 6A X10D – F/UTP (Plenum) |
| E | Cat 6A X10D – F/UTP (Riser) |
| F | Cat 6A X10D – F/UTP (LSZH) |
| G | Cat 6 XL – U/UTP (Plenum) |
| H | Cat 6 XL – U/UTP (Riser) |
| J | Cat 6 XL – U/UTP (LSZH) |
| Q | Cat 6A X10D – S/FTP (LSZH) |
| R | Cat 6 – U/UTP Class B Rated (LSZH) |
| S | Cat 6A – U/UTP Class B Rated (LSZH) |
| Y | Cat 6A X10D SD – U/UTP (Riser) |

Environmental Specifications

| | |
|------------------------------|--------------------------------------|
| Operating Temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Environmental Space | Plenum |
| Flammability Rating | UL 94 V-0 |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

| | | |
|------------|---|--|
| 2291B-4/23 | – | GigaSPEED X10D® 2291B ETL Verified Category 6A F/UTP Cable, plenum, 4 pair count |
| HGS620 | – | GigaSPEED X10D® HGS-Series Modular Jack, RJ45, Cat6A, Shielded |

2291B-4/23



GigaSPEED X10D® 2291B ETL Verified Category 6A F/UTP Cable, plenum, 4 pair count

Product Classification

| | |
|------------------------------|---|
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
| Portfolio | SYSTIMAX® |
| Product Type | Twisted pair cable |
| Product Brand | GigaSPEED X10D® |

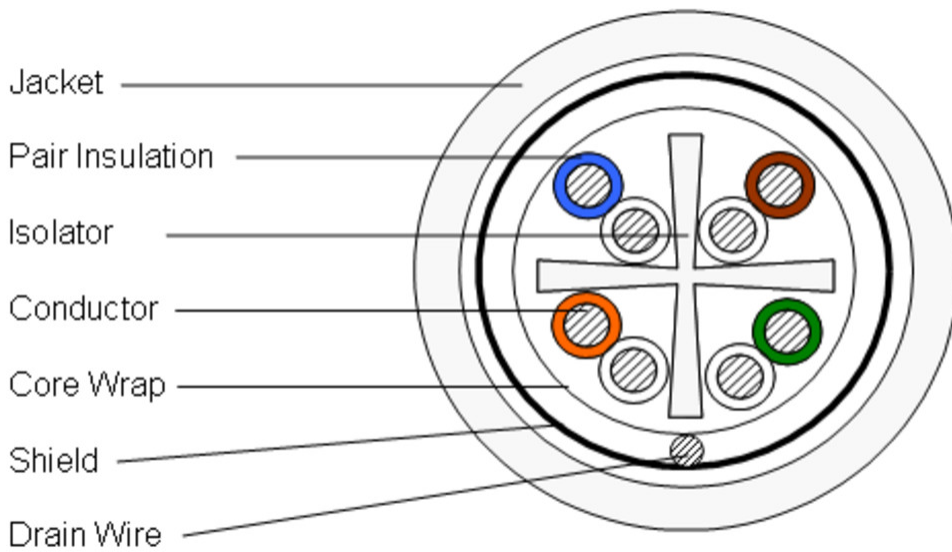
General Specifications

| | |
|--------------------------------|------------------|
| Product Number | 2291B |
| ANSI/TIA Category | 6A |
| Cable Component Type | Horizontal |
| Cable Type | F/UTP (shielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Drain Wire Type | Solid |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D |

Dimensions

| | |
|--------------------------------------|---------------------|
| Diameter Over Jacket, nominal | 7.01 mm 0.276 in |
| Jacket Thickness | 0.457 mm 0.018 in |
| Conductor Gauge, singles | 23 AWG |
| Drain Wire Gauge | 26 AWG |

Cross Section Drawing



Electrical Specifications

| | |
|--|---|
| dc Resistance Unbalance, maximum | 4 % |
| dc Resistance, maximum | 8 ohms/100 m 2.438 ohms/100 ft |
| Dielectric Strength, minimum | 1500 Vac 2500 Vdc |
| Mutual Capacitance at Frequency | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 70 % |
| Operating Frequency, maximum | 500 MHz |
| Operating Voltage, maximum | 80 V |
| Remote Powering | Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A |

Material Specifications

| | |
|-------------------------------|---------------|
| Conductor Material | Bare copper |
| Drain Wire Material | Tinned copper |
| Insulation Material | FEP |
| Jacket Material | PVC |
| Separator Material | FEP |
| Shield (Tape) Material | Aluminum/Poly |

Mechanical Specifications

| | |
|---------------------------------|------------------|
| Pulling Tension, maximum | 11.34 kg 25 lb |
|---------------------------------|------------------|

2291B-4/23

Environmental Specifications

| | |
|---------------------------------|-------------------------------------|
| Installation temperature | 0 °C to +60 °C (+32 °F to +140 °F) |
| Operating Temperature | -20 °C to +60 °C (-4 °F to +140 °F) |
| Environmental Space | Plenum |
| Temperature Rating, UL | 105 °C 221 °F |
| Flame Test Method | CMP/FT6 |
| Smoke Test Method | CMP/FT6 |

Packaging and Weights

| | |
|---------------------|--------------------------|
| Cable weight | 58.038 kg/km 39 lb/kft |
|---------------------|--------------------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

HGS620

Base Product



GigaSPEED X10D® HGS-Series Modular Jack, RJ45, Cat6A, Shielded

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio

SYSTIMAX®

Product Type

Modular jack

Product Brand

GigaSPEED X10D®

Product Series

HGS620

General Specifications

ANSI/TIA Category

6A

Application

Adapts to M Series and Keystone

Cable Type

Shielded

Conductor Type

Solid | Stranded

Outlet Type

High density

Termination Type

IDC

Wiring

T568A | T568B

Dimensions

Height

19.56 mm | 0.77 in

Width

17.02 mm | 0.67 in

Depth

33.53 mm | 1.32 in

Compatible Conductor Gauge, solid

22 AWG | 24 AWG

Compatible Conductor Gauge, stranded

22 AWG | 24 AWG

Electrical Specifications

Contact Resistance Variation, maximum

20 mOhm

Contact Resistance, maximum

100 mOhm

HGS620

| | |
|--|---|
| Current Rating at Temperature | 1.5 A @ 20 °C 1.5 A @ 68 °F |
| Dielectric Withstand Voltage, RMS, conductive surface | 1,500 Vac @ 60 Hz |
| Dielectric Withstand Voltage, RMS, contact-to-contact | 1,000 Vac @ 60 Hz |
| Insulation Resistance, minimum | 500 mOhm |
| Remote Powering | Fully supports the safe delivery of power over LAN cabling described by IEEE 802.3bt (Type 4) and complies with the unloading under electrical load requirements prescribed by IEC 60512-99-002 |

Material Specifications

| | |
|------------------------------------|---|
| Contact Plating Material | Precious metals |
| Material Type | Copper alloy High-impact, flame retardant, thermoplastic Tin Zinc |
| Termination Contact Plating | Nickel |

Mechanical Specifications

| | |
|---------------------------------------|----------------------------|
| Plug Insertion Life, minimum | 750 |
| Plug Insertion Life, test plug | IEC 60603-7 compliant plug |
| Plug Retention Force, minimum | 133 N 29.9 lbf |

Environmental Specifications

| | |
|------------------------------|--------------------------------------|
| Operating Temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Relative Humidity | Up to 95%, non-condensing |
| Flammability Rating | UL 94 V-0 |
| Safety Standard | UL cUL |