

# CQAXG | IP6A-24LSFTP-01S-BLUNT

## Base Product



InstaPATCH® Cu 3297B Category 7 S/FTP LSZH Preterminated Copper Cable, single row standard density outlet to unterminated, 24 links

## Product Classification

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

## General Specifications

|                                       |                               |
|---------------------------------------|-------------------------------|
| <b>ANSI/TIA Category</b>              | 6A                            |
| <b>Cable Type</b>                     | S/FTP (shielded)              |
| <b>Conductor Type</b>                 | Solid                         |
| <b>Interface, Connector A</b>         | Information outlet            |
| <b>Interface Feature, connector A</b> | Single row   Standard density |
| <b>Interface, Connector B</b>         | Unterminated                  |
| <b>Link Count</b>                     | 24                            |
| <b>Wiring</b>                         | T568B                         |

## Dimensions

|   |          |
|---|----------|
| <b>Cable Assembly Length Range (m)</b>  | 5 – 90   |
| <b>Cable Assembly Length Range (ft)</b> | 17 – 295 |

## Electrical Specifications

|                               |         |
|-------------------------------|---------|
| <b>dc Resistance, maximum</b> | 0.3 ohm |
| <b>Safety Voltage Rating</b>  | 300 V   |

## Ordering Tree

# CQAXG | IP6A-24LSFTP-01S-BLUNT

|   |   |   |   |   |   |   |   |   |    |    |    |   |   |   |   |
|---|---|---|---|---|---|---|---|---|----|----|----|---|---|---|---|
| 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                            | Connector B                                | Orientation A           | Orientation B           |
|---------------------------------------|--|-------------------------|-------------------------|
| A Cat 6A X10D – U/UTP (Plenum)        | A Outlet* – Single Row Standard Density    | 1 Trident Series Flat   | 1 Trident Series Flat   |
| B Cat 6A X10D – U/UTP (Riser)         | B Outlet* – Dual Row Standard Density      | 2 Right Paired Flat     | 2 Right Paired Flat     |
| C Cat 6A X10D – U/UTP (LSZH)          | C Outlet* – Dual Row High Density          | 3 Right Series Flat     | 3 Right Series Flat     |
| D Cat 6A X10D – F/UTP (Plenum)        | G RJ45 Plug* – Single Row Standard Density | 4 Left Paired Flat      | 4 Left Paired Flat      |
| E Cat 6A X10D – F/UTP (Riser)         | H RJ45 Plug* – Dual Row Standard Density   | 5 Left Series Flat      | 5 Left Series Flat      |
| F Cat 6A X10D – F/UTP (LSZH)          | J RJ45 Plug* – Dual Row High Density       | 6 Trident Paired Flat   | 6 Trident Paired Flat   |
| G Cat 6 XL – U/UTP (Plenum)           | N 1100 Module                              | A Trident Series Angled | A Trident Series Angled |
| H Cat 6 XL – U/UTP (Riser)            | R 360 1100 Evolve Module                   | B Right Paired Angled   | B Right Paired Angled   |
| J Cat 6 XL – U/UTP (LSZH)             | S OneLink 2x6                              | C Right Series Angled   | C Right Series Angled   |
| Q Cat 6A X10D – S/FTP (LSZH)          | T OneLink 2x4                              | D Left Paired Angled    | D Left Paired Angled    |
| R Cat 6 – U/UTP Class B Rated (LSZH)  |  | E Left Series Angled    | E Left Series Angled    |
| S Cat 6A – U/UTP Class B Rated (LSZH) |  | F Trident Paired Angled | F Trident Paired Angled |
| Y Cat 6A X10D SD – U/UTP (Riser)      |  |                         | X Not Applicable        |

| Connector A                                | Link | Outlet Color     | Jacket Color  | UOM     | Length |
|--|------|------------------|---------------|---------|--------|
| A Outlet* – Single Row Standard Density    | B 6  | 0 Not Applicable | 8 White (WH)  | F Foot  | 12 XXX |
| B Outlet* – Dual Row Standard Density      | C 8  | 1 Black (BK)     | 10 Slate (SL) | M Meter |        |
| C Outlet* – Dual Row High Density          | D 12 | 2 Blue (BL)      |               |         |        |
| G RJ45 Plug* – Single Row Standard Density | E 16 | 3 White (WH)     |               |         |        |
| H RJ45 Plug* – Dual Row Standard Density   | F 18 |                  |               |         |        |
| J RJ45 Plug* – Dual Row High Density       | G 24 |                  |               |         |        |
| N 1100 Module                              |      |                  |               |         |        |
| R 360 1100 Evolve Module                   |      |                  |               |         |        |
| S OneLink 2x6                              |      |                  |               |         |        |
| T OneLink 2x4                              |      |                  |               |         |        |
| X Unterminated                             |      |                  |               |         |        |

| Bundling      | Labeling        |
|---------------|-----------------|
| H Hook-n-loop | A Generic Label |
| S Sleaving    |                 |

• Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices  
 • Cords < 1m are also valid elements for use in a channel or as an equipment interconnect, but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

## Environmental Specifications

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Operating Temperature</b> | -10 °C to +60 °C (+14 °F to +140 °F) |
| <b>Environmental Space</b>   | Low Smoke Zero Halogen (LSZH)        |
| <b>Flammability Rating</b>   | UL 94 V-0                            |

## Regulatory Compliance/Certifications

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

## Included Products

- 3297B-4/23 – 3297B Category 7 S/FTP Cable, low smoke zero halogen, 4 pair count
- HGS620 – GigaSPEED X10D® HGS-Series Modular Jack, RJ45, Cat6A, Shielded

# 3297B-4/23

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3297B Category 7 S/FTP Cable, low smoke zero halogen, 4 pair count

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America |
| <b>Portfolio</b>             | SYSTIMAX®   |
| <b>Product Type</b>          | Twisted pair cable                                  |
| <b>Ordering Note</b>         | Available in Europe, Middle East, and Africa        |

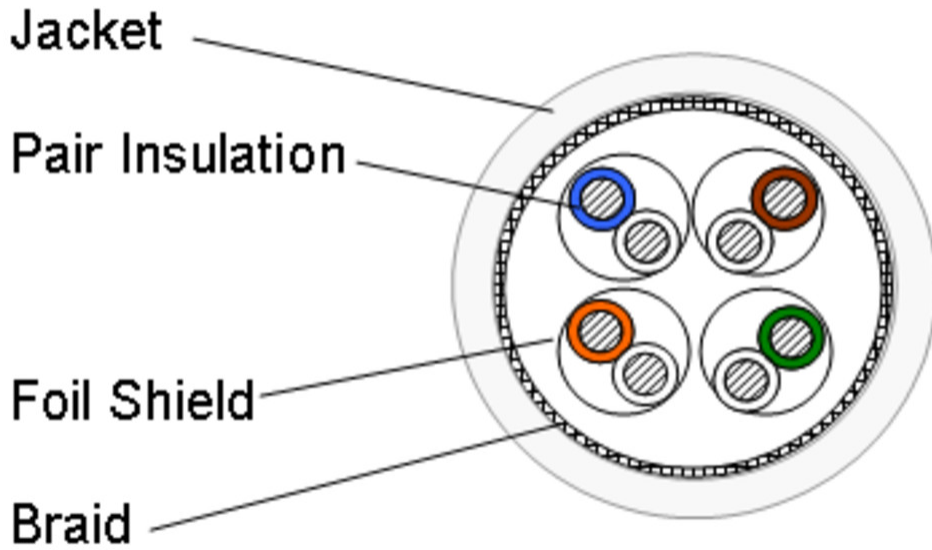
## General Specifications

|                                |  |
|--------------------------------|--|
| <b>Product Number</b>          | 3297B  |
| <b>ANSI/TIA Category</b>       | 7  |
| <b>Cable Component Type</b>    | Horizontal   |
| <b>Cable Type</b>              | S/FTP (shielded)   |
| <b>Conductor Type, singles</b> | Solid  |
| <b>Conductors, quantity</b>    | 8  |
| <b>Note</b>                    | All electrical transmission tests include swept frequency measurements |
| <b>Pairs, quantity</b>         | 4  |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   CENELEC EN 50288-4-1   ISO/IEC 11801 Class F        |

## Dimensions

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Diameter Over Jacket, nominal</b> | 7.391 mm   0.291 in |
| <b>Jacket Thickness</b>              | 0.635 mm   0.025 in |
| <b>Conductor Gauge, singles</b>      | 23 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |                                    |
|--|------------------------------------|
| <b>dc Resistance Unbalance, maximum</b>      | 2 %                                |
| <b>dc Resistance, maximum</b>                | 7.61 ohms/100 m   2.32 ohms/100 ft |
| <b>Mutual Capacitance at Frequency</b>       | 4.2 nF/100 m @ 1 kHz               |
| <b>Nominal Velocity of Propagation (NVP)</b> | 80 %                               |
| <b>Operating Frequency, maximum</b>          | 600 MHz                            |
| <b>Operating Voltage, maximum</b>            | 80 V                               |
| <b>Segregation Class</b>                     | d                                  |

## Electrical Cable Performance

|               |   |               |   |
|---------------|---|---------------|---|
| <b>CS</b>     | CommScope   | <b>NEXT</b>   | Near End Crosstalk (dB/100m)                              |
| <b>STD</b>    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | <b>PSNEXT</b> | Power Sum Near End Crosstalk (db/100m)                    |
| <b>TYP</b>    | Typical Electrical Performance  | <b>ACRF</b>   | Attenuation to Crosstalk Ratio - Far End (dB/100m)        |
| <b>IL</b>     | Insertion Loss (dB/100m)  | <b>RL</b>     | Return Loss (dB)  |
| <b>ACR</b>    | Attenuation to Crosstalk Ratio (dB/100m)  | <b>ELTCTL</b> | Equal Level Transverse Conversion Transfer Loss (dB/100m) |
| <b>PSACR</b>  | Power Sum Attenuation to Crosstalk Ratio (dB/100m)  |               |   |
| <b>PSACRF</b> | Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)  |               |   |
| <b>TCL</b>    | Transverse Conversion Loss (dB/100m)  |               |   |

| Freq.<br>MHz |
|--------------|
| 1            |
| 4            |
| 8            |
| 10           |
| 16           |
| 20           |
| 25           |
| 31.25        |
| 62.5         |
| 100          |
| 155          |
| 200          |
| 250          |
| 300          |
| 350          |
| 400          |
| 500          |
| 550          |
| 600          |
| 1,000        |

## Material Specifications

|                                |                               |
|--------------------------------|-------------------------------|
| <b>Conductor Material</b>      | Bare copper                   |
| <b>Insulation Material</b>     | Polyolefin                    |
| <b>Jacket Material</b>         | Low Smoke Zero Halogen (LSZH) |
| <b>Separator Material</b>      | Polyolefin                    |
| <b>Shield (Braid) Material</b> | Tinned copper                 |
| <b>Shield (Tape) Material</b>  | Polyester/Aluminum shield     |

## Mechanical Specifications

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

## Environmental Specifications

|                                 |                                     |
|---------------------------------|-------------------------------------|
| <b>Installation temperature</b> | 0 °C to +50 °C (+32 °F to +122 °F)  |
| <b>Operating Temperature</b>    | -20 °C to +60 °C (-4 °F to +140 °F) |
| <b>Acid Gas Test Method</b>     | IEC 60754-2                         |
| <b>Environmental Space</b>      | Low Smoke Zero Halogen (LSZH)       |
| <b>Flame Test Method</b>        | IEC 60332-3-24                      |
| <b>Smoke Test Method</b>        | IEC 61034-2                         |

## Packaging and Weights

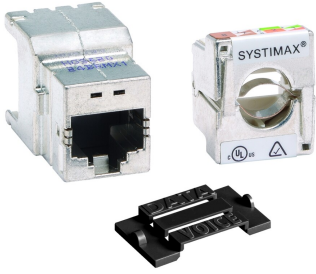
|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 56.997 kg/km   38.3 lb/kft |
|---------------------|----------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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

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|  |   |
|--|---|
| <b>Current Rating at Temperature</b>                         | 1.5 A @ 20 °C   1.5 A @ 68 °F   |
| <b>Dielectric Withstand Voltage, RMS, conductive surface</b> | 1,500 Vac @ 60 Hz   |
| <b>Dielectric Withstand Voltage, RMS, contact-to-contact</b> | 1,000 Vac @ 60 Hz   |
| <b>Insulation Resistance, minimum</b>                        | 500 mOhm  |
| <b>Remote Powering</b>                                       | 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

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

## Mechanical Specifications

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

## Environmental Specifications

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