

# CBBAG | IP6A-24RUTP-02S-01S

## Base Product



InstaPATCH® Cu GigaSPEED X10D® U/UTP Riser Preterminated Copper Cable, dual row standard density outlet to single row standard density outlet, 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>                     | U/UTP (unshielded)            |
| <b>Conductor Type</b>                 | Solid                         |
| <b>Interface, Connector A</b>         | Information outlet            |
| <b>Interface Feature, connector A</b> | Dual row   Standard density   |
| <b>Interface, Connector B</b>         | Information outlet            |
| <b>Interface Feature, connector B</b> | Single row   Standard density |
| <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

# CBBAG | IP6A-24RUTP-02S-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                            | 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   |
| K Cat 6A X10D – S/FTP (LSZH)          | T OneLink 2x4                              | D Left Paired Angled    | D Left Series Angled    |
| L Cat 6 – U/UTP Class B Rated (LSZH)  |  | E Left Series Angled    | E Trident Paired Angled |
| M Cat 6A – U/UTP Class B Rated (LSZH) |  | F Trident Paired Angled | F Not Applicable        |
| N Cat 6A X10D SD – U/UTP (Riser)      |  |                         | X Not Applicable        |

| Connector A                                | Link | Outlet Color     | Jacket Color  | Bundling      | Labeling        |
|--|------|------------------|---------------|---------------|-----------------|
| A Outlet* – Single Row Standard Density    | B 6  | 0 Not Applicable | 8 White (WH)  | H Hook-n-loop | A Generic Label |
| B Outlet* – Dual Row Standard Density      | C 8  | 1 Black (BK)     | 9 White (WH)  | S Sleaving    |                 |
| C Outlet* – Dual Row High Density          | D 12 | 2 Blue (BL)      | 10 Slate (SL) |               |                 |
| G RJ45 Plug* – Single Row Standard Density | E 16 | 3 Blue (BL)      |               |               |                 |
| H RJ45 Plug* – Dual Row Standard Density   | F 18 | 4 White (WH)     |               |               |                 |
| 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                             |      |                  |               |               |                 |

| UOM       | Length |
|-----------|--------|
| 11 F Foot | 12 XXX |
| M Meter   |        |

- 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>   | Riser                                |
| <b>Flammability Rating</b>   | UL 94 V-0                            |

## Regulatory Compliance/Certifications

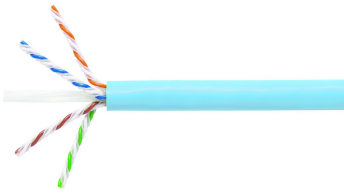
|               |  |
|---------------|--|
| <b>Agency</b> | <b>Classification</b>  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## Included Products

- 1091B-4/23 – GigaSPEED X10D® 1091B ETL Verified Category 6A U/UTP Cable, 4 pair count
- MGS600 – GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded

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GigaSPEED X10D® 1091B ETL Verified Category 6A U/UTP Cable, 4 pair count

## Product Classification

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

## General Specifications

|                                |   |
|--------------------------------|---|
| <b>Product Number</b>          | 1091B                                     |
| <b>ANSI/TIA Category</b>       | 6A  |
| <b>Cable Component Type</b>    | Horizontal                                |
| <b>Cable Type</b>              | U/UTP (unshielded)                        |
| <b>Conductor Type, singles</b> | Solid                                     |
| <b>Conductors, quantity</b>    | 8   |
| <b>Pairs, quantity</b>         | 4   |
| <b>Separator Type</b>          | Isolator                                  |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA |

## Dimensions

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Diameter Over Jacket, nominal</b> | 7.239 mm   0.285 in |
| <b>Jacket Thickness</b>              | 1.295 mm   0.051 in |
| <b>Conductor Gauge, singles</b>      | 23 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>Characteristic Impedance</b>              | 100 ohm   |
| <b>Characteristic Impedance Tolerance</b>    | ±15 ohm   |
| <b>dc Resistance Unbalance, maximum</b>      | 4 %   |
| <b>dc Resistance, maximum</b>                | 7.61 ohms/100 m   2.32 ohms/100 ft  |
| <b>Dielectric Strength, minimum</b>          | 1500 Vac   2500 Vdc   |
| <b>Mutual Capacitance at Frequency</b>       | 6.0 nF/100 m @ 1 kHz  |
| <b>Nominal Velocity of Propagation (NVP)</b> | 65 %  |
| <b>Operating Frequency, maximum</b>          | 550 MHz   |
| <b>Operating Voltage, maximum</b>            | 80 V  |
| <b>Remote Powering</b>                       | 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

|                             |             |
|-----------------------------|-------------|
| <b>Conductor Material</b>   | Bare copper |
| <b>Insulation Material</b>  | Polyolefin  |
| <b>Jacket Material</b>      | PVC         |
| <b>Separator Material</b>   | Polyolefin  |
| <b>Separator 2 Material</b> | Polyolefin  |

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## Mechanical Specifications

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

## 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** Non-plenum

**Temperature Rating, UL** 75 °C | 167 °F

**Flame Test Method** CMR

## Packaging and Weights

**Cable weight** 55.509 kg/km | 37.3 lb/kft

## Regulatory Compliance/Certifications

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

# MGS600

## Base Product



GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded

## 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

MGS600

## General Specifications

### ANSI/TIA Category

6A

### Cable Type

Unshielded

### Conductor Type

Solid | Stranded

### Termination Type

IDC

### Wiring

T568A | T568B

## Dimensions

### Height

19.4 mm | 0.764 in

### Width

21.08 mm | 0.83 in

### Depth

30.2 mm | 1.189 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

# MGS600

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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>PoE Durability</b>  | Supports IEEE 802.3bt Type 4 (90 W) applications after 3000 plug to jack mating cycles |

## Material Specifications

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

## Mechanical Specifications

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>Plug Retention Force, minimum</b> | 133 N   29.9 lbf               |
| <b>Plug to Jack Mating Cycles</b>    | Complies to IEC 60603-7 series |

## 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                             |

## Regulatory Compliance/Certifications

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