

Base Product



InstaPATCH® Cu GigaSPEED XL® U/UTP Riser Preterminated Copper Cable, single row standard density outlet to dual row standard density outlet, 24 links

This product will be discontinued on: January 31, 2025

Product Classification

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

General Specifications

ANSI/TIA Category	6
Cable Type	U/UTP (unshielded)
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	Dual row   Standard density
Link Count	24
Wiring	T568B

Dimensions

Cable Assembly Length Range (m)	2 – 90
Cable Assembly Length Range (ft)	7 – 295

Electrical Specifications

dc Resistance, maximum	0.3 ohm
Safety Voltage Rating	300 V

Ordering Tree

123456789101112

CAC-11HABBF050

Cable Type

1

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 A

1

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

Connector B

3

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

Link

4

B

6

C

8

D

12

E

16

F

18

G

24

Bundling

7

H

Hook-n-loop

S

Sleeving

Labeling

8

A

Generic Label

Orientation A

5

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

6

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

Outlet Color

9

0

Not Applicable

1

Black (BK)

2

Blue (BL)

8

White (WH)

Jacket Color

10

8

White (WH)

C

Slate (SL)

Z

Blue (BL)

UOM

11

F

Foot

M

Meter

Length

12

XXX

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

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

Regulatory Compliance/Certifications

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

Included Products

1071E-4/23	– GigaSPEED XL® 1071E ETL Verified Category 6 U/UTP Cable, non-plenum, 4 pair count
MGS400	– GigaSPEED XL® M-Series Modular Jack, RJ45, Cat6 Unshielded



GigaSPEED XL® 1071E ETL Verified Category 6 U/UTP Cable, non-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 XL®
Ordering Note	Not available in Europe, the Middle East, or Africa

General Specifications

Product Number	1071E
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Pairs, quantity	4
Separator Type	Bisector
Transmission Standards	ANSI/TIA-568.2-D   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E

Dimensions

Diameter Over Jacket, nominal	5.893 mm   0.232 in
Jacket Thickness	0.559 mm   0.022 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	7.61 ohms/100 m   2.32 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)	69 %
Operating Frequency, maximum	300 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
Insulation Material	Polyolefin
Jacket Material	PVC
Separator Material	Polyolefin

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** CMG | CMR

## Packaging and Weights

**Cable weight** 38.097 kg/km | 25.6 lb/kft

## Regulatory Compliance/Certifications

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

# MGS400

## Base Product



## GigaSPEED XL® M-Series Modular Jack, RJ45, Cat6 Unshielded

- Electrical performance guaranteed to meet or exceed the channel specifications to ISO/IEC 11801 Class E and ANSI/TIA-568.2-D Category 6
- Patented crossing of straddling pair contacts enables efficient alien crosstalk reduction in the channel
- Snaps into standard M-series faceplates, surface-mount boxes, consolidation point boxes and modular panels
- Mountable either at 90 degrees (straight) or 45 degrees (angled) in M-series faceplate

## Product Classification

### Regional Availability

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

### Portfolio

SYSTIMAX®

### Product Type

Modular jack

### Product Brand

GigaSPEED XL®

### Product Series

MGS400

## General Specifications

### ANSI/TIA Category

6

### 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

# MGS400

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

## Material Specifications

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

## Mechanical Specifications

Plug Retention Force, minimum	133 N   29.9 lbf
Plug to Jack Mating Cycles	Complies to IEC 60603-7 series

## 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

## Regulatory Compliance/Certifications

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