## CAAAB | IP6A-06PUTP-01S-01S

#### **Base Product**



InstaPATCH® Cu GigaSPEED X10D® U/UTP Plenum Preterminated 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 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 Single row | Standard density

Link Count 6

Wiring T568B

**Dimensions** 

Cable Assembly Length Range (m) 5 - 90

Cable Assembly Length Range (ft) 17 - 295

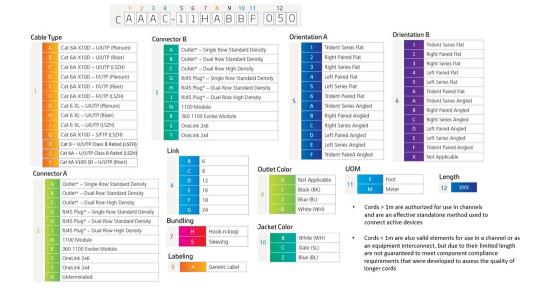
Electrical Specifications

dc Resistance, maximum0.3 ohmSafety Voltage Rating300 V

Ordering Tree



# CAAAB | IP6A-06PUTP-01S-01S



### **Environmental Specifications**

**Operating Temperature**  $-10 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \text{ (+14 °F to +140 °F)}$ 

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

2091B-4/23 - GigaSPEED X10D® 2091B ETL Verified Category 6A U/UTP Cable, 4 pair count

MGS600 - GigaSPEED X10D® M-Series Modular Jack, RJ45, Cat6A Unshielded





GigaSPEED X10D® 2091B ETL Verified Category 6A U/UTP Cable, 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 2091B
ANSI/TIA Category 6A

Cable Component Type Horizontal

 Cable Type
 U/UTP (unshielded)

Conductor Type, singles Solid
Conductors, quantity 8

Note Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable

installation in higher temperature environments

Pairs, quantity 4

Separator Type Isolator

Transmission Standards ANSI/TIA-568.2-D | ISO/IEC 11801 Class EA

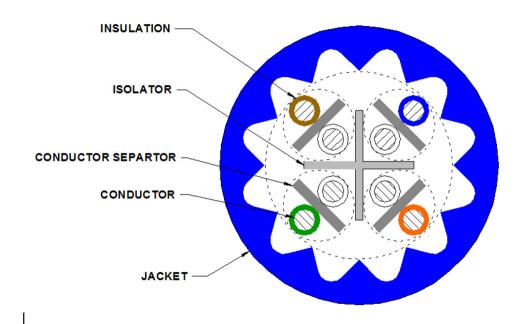
**Dimensions** 

Diameter Over Jacket, nominal7.239 mm0.285 inJacket Thickness1.295 mm0.051 in

Conductor Gauge, singles 23 AWG

Cross Section Drawing





### **Electrical Specifications**

dc Resistance Unbalance, maximum 4 %

dc Resistance, maximum 7.61 ohms/100 m | 2.32 ohms/100 ft

Dielectric Strength, minimum 1500 Vac | 2500 Vdc **Mutual Capacitance at Frequency** 

Nominal Velocity of Propagation (NVP) 66 %

Operating Frequency, maximum 550 MHz

80 V Operating Voltage, maximum

Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the **Remote Powering** 

6.0 nF/100 m @ 1 kHz

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 FEP Jacket Material PVC** 

FEP **Separator Material** 

Separator 2 Material Polyolefin

Mechanical Specifications



## 2091B-4/23

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

**Environmental Specifications** 

Installation temperature  $0 \,^{\circ}\text{C}$  to +60  $^{\circ}\text{C}$  (+32  $^{\circ}\text{F}$  to +140  $^{\circ}\text{F}$ )

Operating Temperature  $-20 \,^{\circ}\text{C}$  to +75  $^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to +167  $^{\circ}\text{F}$ )

Environmental Space Plenum

**Temperature Rating, UL** 105 °C | 221 °F

Flame Test Method CMP/FT6
Safety Standard UL 444

Smoke Test Method CMP/FT6 | NFPA 262

Packaging and Weights

**Cable weight** 60.568 kg/km | 40.7 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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

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## MGS600

Current Rating at Temperature 1.5 A @ 20 °C | 1.5 A @ 68 °F

Dielectric Withstand Voltage, RMS, conductive surface1,500 Vac @ 60 HzDielectric Withstand Voltage, RMS, contact-to-contact1,000 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  $-10 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (+14  $^{\circ}\text{F}$  to +140  $^{\circ}\text{F}$ )

Storage Temperature  $-40 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  ( $-40 \,^{\circ}\text{F}$  to  $+158 \,^{\circ}\text{F}$ )

**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

