# CDAAG | IP6A-24PFTP-01S-01S

#### **Base Product**



InstaPATCH® Cu GigaSPEED X10D® F/UTP Plenum Copper Cable, single row standard density outlet to single row standard density outlet, 24 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 24

Wiring T568B

**Dimensions** 

Cable Assembly Length Range (m) 5 - 90

Cable Assembly Length Range (ft) 17 - 295

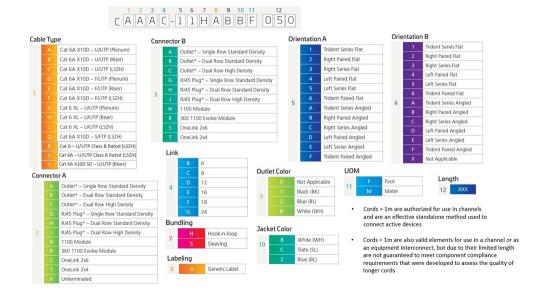
Electrical Specifications

dc Resistance, maximum0.3 ohmSafety Voltage Rating300 V

Ordering Tree



## CDAAG | IP6A-24PFTP-01S-01S



### **Environmental Specifications**

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

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 TypeF/UTP (shielded)

Conductor Type, singlesSolidConductors, quantity8Drain Wire TypeSolidPairs, quantity4

Separator Type Isolator

**Transmission Standards** ANSI/TIA-568.2-D

Dimensions

Diameter Over Jacket, nominal7.01 mm | 0.276 inJacket Thickness0.457 mm | 0.018 in

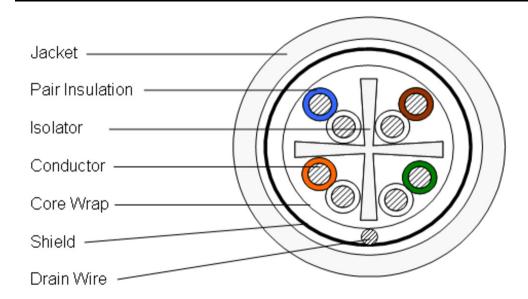
Conductor Gauge, singles 23 AWG

Drain Wire Gauge 26 AWG

Cross Section Drawing



## 2291B-4/23



### **Electrical Specifications**

dc Resistance Unbalance, maximum 4 %

dc Resistance, maximum 8 ohms/100 m | 2.438 ohms/100 ft

Dielectric Strength, minimum1500 Vac2500 VdcMutual Capacitance at Frequency5.6 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP) 70 %

Operating Frequency, maximum500 MHzOperating Voltage, maximum80 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 MaterialBare copperDrain Wire MaterialTinned copper

Insulation MaterialFEPJacket MaterialPVCSeparator MaterialFEP

Shield (Tape) Material Aluminum/Poly

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

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## 2291B-4/23

### **Environmental Specifications**

**Installation temperature** 0 °C to +60 °C (+32 °F to +140 °F)

**Operating Temperature**  $-20 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

Environmental Space Plenum

**Temperature Rating, UL**  $105 \, ^{\circ}\text{C} \, \mid \, 221 \, ^{\circ}\text{F}$ 

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

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## 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 unmating 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  $-40 \,^{\circ}\text{C}$  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