CACCD | IP6A-12PUTP-02H-02H

Base Product



InstaPATCH® Cu GigaSPEED X10D® U/UTP Plenum Preterminated Copper Cable, dual row high density outlet to dual row standard density outlet, 12 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 Dual row | High density

Interface, Connector B Information outlet

Interface Feature, connector B Dual row | High density

Link Count 12

Wiring T568B

Dimensions

Cable Assembly Length Range (m) 5 - 90

Cable Assembly Length Range (ft) 17 - 295

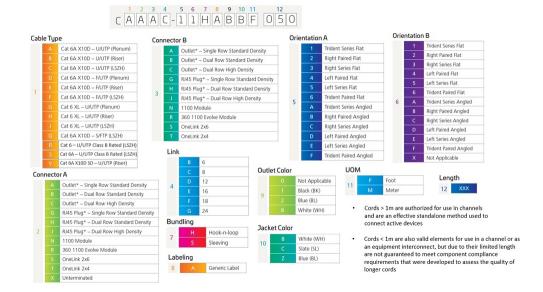
Electrical Specifications

dc Resistance, maximum0.3 ohmSafety Voltage Rating300 V

Ordering Tree



CACCD | IP6A-12PUTP-02H-02H



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

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

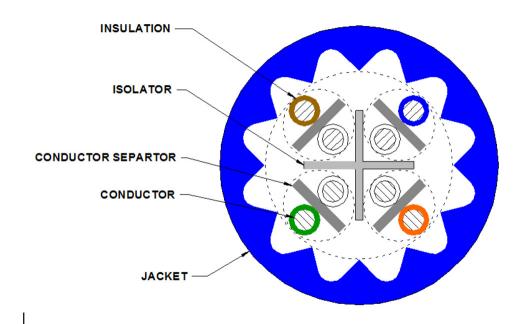
Dimensions

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

Page 6 of 7

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 HumidityUp 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

