# CQAAD | IP6A-12LSFTP-01S-01S

#### **Base Product**



InstaPATCH® Cu 3297B Category 7 S/FTP LSZH Preterminated Copper Cable, single row standard density outlet to single 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 S/FTP (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 12

Wiring T568B

**Dimensions** 

Cable Assembly Length Range (m) 5-90

Cable Assembly Length Range (ft) 17 - 295

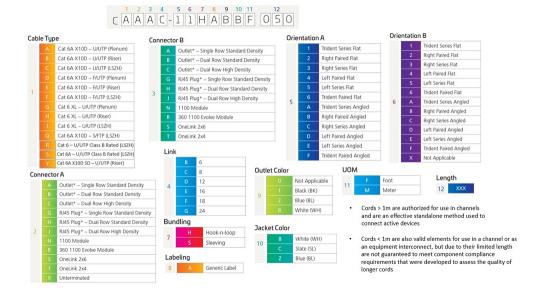
Electrical Specifications

dc Resistance, maximum0.3 ohmSafety Voltage Rating300 V

Ordering Tree



# CQAAD | IP6A-12LSFTP-01S-01S



## **Environmental Specifications**

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

**Environmental Space** Low Smoke Zero Halogen (LSZH)

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

3297B-4/23 – 3297B Category 7 S/FTP Cable, low smoke zero halogen, 4 pair

count

HGS620 – GigaSPEED X10D® HGS-Series Modular Jack, RJ45, Cat6A, Shielded



## 3297B-4/23

### 3297B Category 7 S/FTP Cable, low smoke zero halogen, 4 pair count

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America

Portfolio SYSTIMAX®

Product Type Twisted pair cable

Ordering Note Available in Europe, Middle East, and Africa

General Specifications

Product Number 3297B
ANSI/TIA Category 7

Cable Component Type Horizontal

Cable Type S/FTP (shielded)

Conductor Type, singles Solid
Conductors, quantity 8

**Note**All electrical transmission tests include swept frequency measurements

Pairs, quantity 4

Transmission Standards ANSI/TIA-568.2-D | CENELEC EN 50288-4-1 | ISO/IEC 11801 Class F

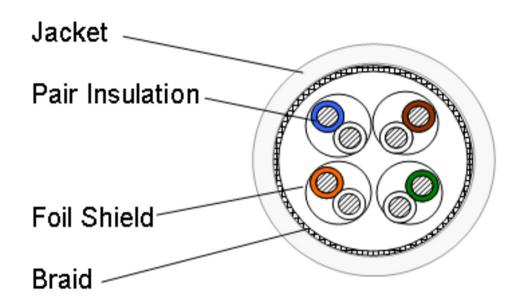
**Dimensions** 

Diameter Over Jacket, nominal7.391 mm0.291 inJacket Thickness0.635 mm0.025 in

Conductor Gauge, singles 23 AWG

Cross Section Drawing





## **Electrical Specifications**

dc Resistance Unbalance, maximum 2 %

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

Mutual Capacitance at Frequency 4.2 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP) 80 %

**Operating Frequency, maximum** 600 MHz

Operating Voltage, maximum 80 V

Segregation Class d



# 3297B-4/23

#### Flectrical Cable Performance

**CS** CommScope

STD Refers to the standard value listed under Transmission Standards in the Electrical Specifications above

TYP Typical Electrical Performance

IL Insertion Loss (dB/100m) NEXT Near End Crosstalk (dB/100m)

 ACR
 Attenuation to Crosstalk Ratio (dB/100m)
 PSNEXT
 Power Sum Near End Crosstalk (db/100m)

 PSACR
 Power Sum Attenuation to Crosstalk Ratio (dB/100m)
 ACRF
 Attenuation to Crosstalk Ratio - Far End (dB/100m)

PSACRF Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m) RL Return Loss (dB)

TCL Transverse Conversion Loss (dB/100m) ELTCTL Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq. MHz
1
4
8
10
16
20
25
31.25
62.5
100
155
200
250
300
350
400
500
550
600
1,000

## Material Specifications

Conductor MaterialBare copperInsulation MaterialPolyolefin

Jacket Material Low Smoke Zero Halogen (LSZH)

Separator Material Polyolefin

Shield (Braid) Material Tinned copper

Shield (Tape) Material Polyester/Aluminum shield

Mechanical Specifications

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

COMMSCSPE®

## 3297B-4/23

### **Environmental Specifications**

Installation temperature  $0 \,^{\circ}\text{C}$  to +50  $^{\circ}\text{C}$  (+32  $^{\circ}\text{F}$  to +122  $^{\circ}\text{F}$ )

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

Acid Gas Test Method IEC 60754-2

**Environmental Space** Low Smoke Zero Halogen (LSZH)

Flame Test Method IEC 60332-3-24

Smoke Test Method IEC 61034-2

Packaging and Weights

**Cable weight** 56.997 kg/km | 38.3 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 m0hm

**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

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