CQBBE | IP6A-16LSFTP-02S-02S

Base Product



InstaPATCH® Cu 3297B Category 7 S/FTP LSZH Preterminated Copper Cable, dual row standard density outlet to dual row standard density outlet, 16 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 Dual row | Standard density

Interface, Connector B Information outlet

Interface Feature, connector B Dual row | Standard density

Link Count 16

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



CQBBE | IP6A-16LSFTP-02S-02S



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

NoteAll 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

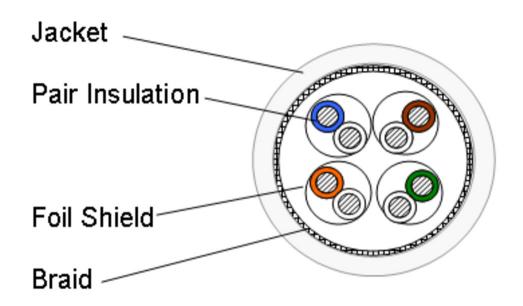
Dimensions

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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