

CQBBD | IP6A-12LSFTP-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, 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	Dual row Standard density
Interface, Connector B	Information outlet
Interface Feature, connector B	Dual 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, maximum	0.3 ohm
Safety Voltage Rating	300 V

Ordering Tree

CQBBD | IP6A-12LSFTP-02S-02S

1	2	3	4	5	6	7	8	9	10	11	12				
C	A	A	A	C	-	1	1	H	A	B	B	F	0	5	0

Cable Type	
A	Cat 6A X10D – U/UTP (Plenum)
B	Cat 6A X10D – U/UTP (Riser)
C	Cat 6A X10D – U/UTP (LSZH)
D	Cat 6A X10D – F/UTP (Plenum)
E	Cat 6A X10D – F/UTP (Riser)
F	Cat 6A X10D – F/UTP (LSZH)
G	Cat 6 XL – U/UTP (Plenum)
H	Cat 6 XL – U/UTP (Riser)
J	Cat 6 XL – U/UTP (LSZH)
Q	Cat 6A X10D – S/FTP (LSZH)
R	Cat 6 – U/UTP Class B Rated (LSZH)
S	Cat 6A – U/UTP Class B Rated (LSZH)
Y	Cat 6A X10D SD – U/UTP (Riser)

Connector A	
A	Outlet* – Single Row Standard Density
B	Outlet* – Dual Row Standard Density
C	Outlet* – Dual Row High Density
G	RJ45 Plug* – Single Row Standard Density
H	RJ45 Plug* – Dual Row Standard Density
J	RJ45 Plug* – Dual Row High Density
N	1100 Module
R	360 1100 Evolve Module
S	OneLink 2x6
T	OneLink 2x4
X	Unterminated

Connector B	
A	Outlet* – Single Row Standard Density
B	Outlet* – Dual Row Standard Density
C	Outlet* – Dual Row High Density
G	RJ45 Plug* – Single Row Standard Density
H	RJ45 Plug* – Dual Row Standard Density
J	RJ45 Plug* – Dual Row High Density
N	1100 Module
R	360 1100 Evolve Module
S	OneLink 2x6
T	OneLink 2x4

Orientation A	
1	Trident Series Flat
2	Right Paired Flat
3	Right Series Flat
4	Left Paired Flat
5	Left Series Flat
6	Trident Paired Flat
A	Trident Series Angled
B	Right Paired Angled
C	Right Series Angled
D	Left Paired Angled
E	Left Series Angled
F	Trident Paired Angled

Orientation B	
1	Trident Series Flat
2	Right Paired Flat
3	Right Series Flat
4	Left Paired Flat
5	Left Series Flat
6	Trident Paired Flat
A	Trident Series Angled
B	Right Paired Angled
C	Right Series Angled
D	Left Paired Angled
E	Left Series Angled
F	Trident Paired Angled
X	Not Applicable

Link	
B	6
C	8
D	12
E	16
F	18
G	24

Outlet Color	
0	Not Applicable
1	Black (BK)
2	Blue (BL)
B	White (WH)

UOM	
F	Foot
M	Meter

Length	
12	XXX

Bundling	
H	Hook-n-loop
S	Sleaving

Jacket Color	
B	White (WH)
C	Slate (SL)
Z	Blue (BL)

Labeling	
A	Generic Label

- Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices
- Cords < 1m are also valid elements for use in a channel or as an equipment interconnect, but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

Environmental Specifications

Operating Temperature	-10 °C to +60 °C (+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

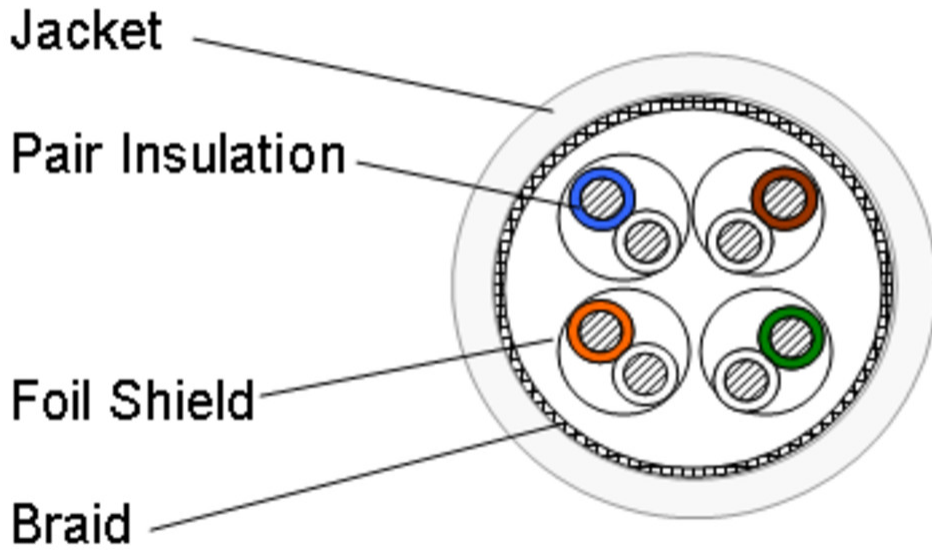
General Specifications

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, nominal	7.391 mm 0.291 in
Jacket Thickness	0.635 mm 0.025 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

Electrical 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 Material	Bare copper
Insulation Material	Polyolefin
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
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Environmental Specifications

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °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

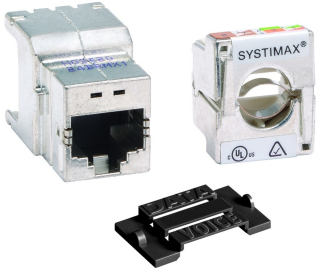
Cable weight	56.997 kg/km 38.3 lb/kft
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Regulatory Compliance/Certifications

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

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 unloading 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 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0
Safety Standard	UL cUL