CQGSD | IP6A-12SFTP-PG1S-1LK12

Base Product

3297B Category 7 S/FTP LSZH Preterminated Copper Cable, single row standard density RJ45 plug to dual row OneLink 2x6, 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	RJ45 plug
Interface Feature, connector A	Single row	Standard density
Interface, Connector B	OneLink 2x6
Interface Feature, connector B	Standard
Link Count	12
Wiring	T568B

Dimensions

Cable Assembly Length Range (m)	2 – 80
Cable Assembly Length Range (ft)	7 – 262

Electrical Specifications

dc Resistance, maximum	0.3 ohm
Safety Voltage Rating	300 V

Ordering Tree

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CQGSD | IP6A-12SFTP-PG1S-1LK12

```
        1  2  3  4   5  6  7  8  9 10 11   12
        C  A  A  A - 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)

(1)

Connector A (2)

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 (3)

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

Link (4)

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

Bundling (7)

H	Hook-n-loop
S	Sleeving

Labeling (8)

A	Generic Label

Orientation A (5)

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 (6)

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

Outlet Color (9)

0	Not Applicable
1	Black (BK)
2	Blue (BL)
8	White (WH)

Jacket Color (10)

8	White (WH)
C	Slate (SL)
Z	Blue (BL)

UOM (11)

F	Foot
M	Meter

Length (12): XXX

- 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

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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

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Jacket

Pair Insulation

Foil Shield

Braid
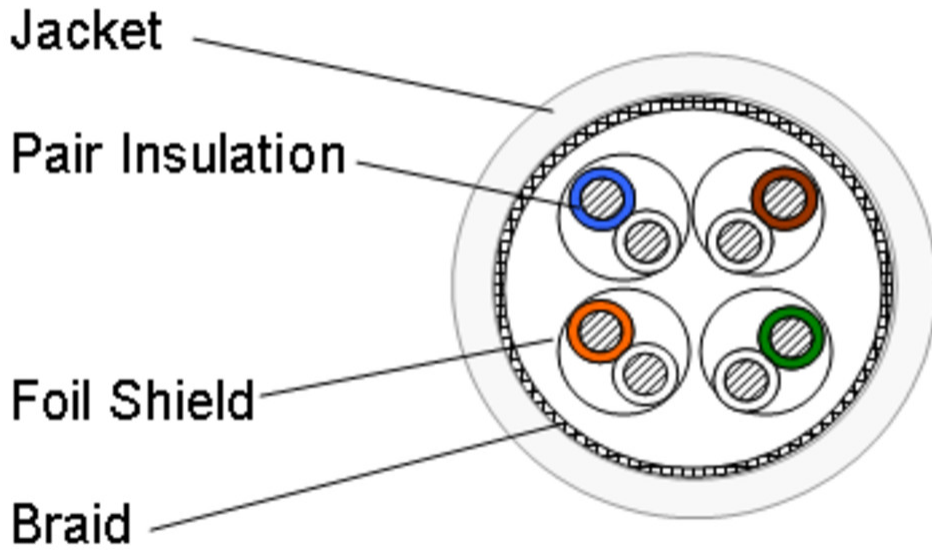
Electrical Specifications

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

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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

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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