InstaPATCH® Cu GigaSPEED X10D® F/FTP LSZH Class B2ca Preterminated Copper Cable, single row standard density outlet to dual row high density RJ45 plug, 6 links

Product Classification

Regional Availability
EMEA

Portfolio
SYSTIMAX®

Product Type
Copper trunk cable assembly

Product Brand
GigaSPEED X10D® | InstaPATCH® Cu

Ordering Note
Available cable jacket color: white

General Specifications

ANSI/TIA Category
6A

Cable Type
F/FTP (shielded) | S/FTP (shielded)

Conductor Type
Solid

Interface, Connector A
Information outlet

Interface Feature, connector A
Single row | Standard density

Interface, Connector B
RJ45 plug

Interface Feature, connector B
Dual row | High density

Link Count
6

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
Environmental Specifications

Operating Temperature: -10 °C to +60 °C (+14 °F to +140 °F)

EN50575 CPR Cable EuroClass Fire Performance: B2ca

EN50575 CPR Cable EuroClass Smoke Rating: s1

EN50575 CPR Cable EuroClass Droplets Rating: d0

EN50575 CPR Cable EuroClass Acidity Rating: a1

Environmental Space: Low Smoke Zero Halogen (LSZH)

Flammability Rating: UL 94 V-0

Regulatory Compliance/Certifications

Agency | Classification
--- | ---
CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available
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
Included Products

760237952
3296A-B WH 4/23 R1640

- 3296A-B Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel
3296A-B Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

### Product Classification

<table>
<thead>
<tr>
<th>Regional Availability</th>
<th>EMEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portfolio</td>
<td>SYSTIMAX®</td>
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<tr>
<td>Product Type</td>
<td>Twisted pair cable</td>
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### General Specifications

<table>
<thead>
<tr>
<th>Product Number</th>
<th>3296A-B</th>
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<tbody>
<tr>
<td>ANSI/TIA Category</td>
<td>6A</td>
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<tr>
<td>Cable Component Type</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Cable Type</td>
<td>F/FTP (shielded)</td>
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<tr>
<td>Conductor Type, singles</td>
<td>Solid</td>
</tr>
<tr>
<td>Conductors, quantity</td>
<td>8</td>
</tr>
<tr>
<td>Jacket Color</td>
<td>White</td>
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<tr>
<td>Pairs, quantity</td>
<td>4</td>
</tr>
<tr>
<td>Transmission Standards</td>
<td>ANSI/TIA-568.2-D</td>
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### Dimensions

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>500 m</th>
<th>1,640.42 ft</th>
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<tbody>
<tr>
<td>Cable Length Tolerance</td>
<td>±5%</td>
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</tr>
<tr>
<td>Diameter Over Conductor</td>
<td>1.168 mm</td>
<td>0.046 in</td>
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<tr>
<td>Diameter Over Jacket, nominal</td>
<td>7.01 mm</td>
<td>0.276 in</td>
</tr>
<tr>
<td>Jacket Thickness</td>
<td>0.61 mm</td>
<td>0.024 in</td>
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<tr>
<td>Conductor Gauge, singles</td>
<td>23 AWG</td>
<td></td>
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</table>

### Cross Section Drawing
Electrical Specifications

**Coupling Attenuation**
Type II

**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)**
79 %

**Operating Frequency, maximum**
500 MHz

**Operating Voltage, maximum**
80 V

**Remote Powering**
Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the 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

**Segregation Class**
d

**Transfer Impedance**
Grade 2
Electrical Cable Performance

<table>
<thead>
<tr>
<th>CS</th>
<th>CommScope</th>
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</thead>
<tbody>
<tr>
<td>STD</td>
<td>Refers to the standard value listed under Transmission Standards in the Electrical Specifications above</td>
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<tr>
<td>TYP</td>
<td>Typical Electrical Performance</td>
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<tr>
<td>IL</td>
<td>Insertion Loss (dB/100m)</td>
</tr>
<tr>
<td>ACR</td>
<td>Attenuation to Crosstalk Ratio (dB/100m)</td>
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<tr>
<td>PSACR</td>
<td>Power Sum Attenuation to Crosstalk Ratio (dB/100m)</td>
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<tr>
<td>PSACRF</td>
<td>Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)</td>
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<tr>
<td>TCL</td>
<td>Transverse Conversion Loss (dB/100m)</td>
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<tr>
<td>NEXT</td>
<td>Near End Crosstalk (dB/100m)</td>
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<tr>
<td>PSNEXT</td>
<td>Power Sum Near End Crosstalk (dB/100m)</td>
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<tr>
<td>ACRF</td>
<td>Attenuation to Crosstalk Ratio - Far End (dB/100m)</td>
</tr>
<tr>
<td>RL</td>
<td>Return Loss (dB)</td>
</tr>
<tr>
<td>ELTCTL</td>
<td>Equal Level Transverse Conversion Transfer Loss (dB/100m)</td>
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</tbody>
</table>

| Freq, MHz | 1 | 4 | 8 | 10 | 16 | 20 | 25 | 31.25 | 62.5 | 100 | 155 | 200 | 250 | 300 | 350 | 400 | 500 |
|-----------|---|---|---|----|----|----|----|-------|------|-----|-----|----|----|----|----|----|----|----|

Material Specifications

**Conductor Material**: Bare copper

**Insulation Material**: Polyolefin

**Jacket Material**: Low Smoke Zero Halogen (LSZH)

**Shield (Tape) Material**: Polyester/Aluminum shield

Mechanical Specifications

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

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  
EN50575 CPR Cable EuroClass Fire Performance  
EN50575 CPR Cable EuroClass Smoke Rating  
EN50575 CPR Cable EuroClass Droplets Rating  
EN50575 CPR Cable EuroClass Acidity Rating  
Environmental Space  
Smoke Test Method  

Packaging and Weights  
Cable weight  
Packaging Type

Regulatory Compliance/Certifications  
Agency  
Classification

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