SYSTIMAX 1091B

GigaSPEED X10D® 1091B ETL Verified Category 6A U/UTP Cable

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- Latin America
- North America

Portfolio
SYSTIMAX®

Product Type
Twisted pair cable

Product Brand
GigaSPEED X10D®

General Specifications

Product Number
1091B

ANSI/TIA Category
6A

Cable Component Type
Horizontal

Cable Type
U/UTP (unshielded)

Conductor Type, singles
Solid

Conductors, quantity
8

Pairs, quantity
4

Separator Type
Isolator

Transmission Standards
ANSI/TIA-568.2-D | ISO/IEC 11801 Class EA

Dimensions

Diameter Over Conductor
- 0.864 mm | 0.034 in

Diameter Over Jacket, nominal
- 7.239 mm | 0.285 in

Jacket Thickness
- 1.295 mm | 0.051 in

Conductor Gauge, singles
- 23 AWG

Cross Section Drawing
Electrical Specifications

Characteristic Impedance 100 ohm
Characteristic Impedance Tolerance ±15 ohm
dc Resistance Unbalance, maximum 4 %
dc Resistance, maximum 7.61 ohms/100 m | 2.32 ohms/100 ft
Dielectric Strength, minimum 1500 Vac | 2500 Vdc
LP (Limited Power) Rating 0.5 A
Mutual Capacitance at Frequency 6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP) 65 %
Operating Frequency, maximum 550 MHz
Operating Voltage, maximum 80 V
Remote Powering

Material Specifications

Conductor Material Bare copper
Insulation Material Polyolefin
Jacket Material PVC

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
## SYSTIMAX 1091B

<table>
<thead>
<tr>
<th><strong>Separator Material</strong></th>
<th>Polyolefin</th>
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<tr>
<td><strong>Separator 2 Material</strong></td>
<td>Polyolefin</td>
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**Mechanical Specifications**

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

**Environmental Specifications**

| **Installation temperature** | 0 °C to +60 °C (+32 °F to +140 °F) |
| **Operating Temperature**    | -20 °C to +60 °C (-4 °F to +140 °F) |
| **Environmental Space**      | Non-plenum |
| **Temperature Rating, UL**   | 90 °C | 194 °F |
| **Flame Test Method**        | CMR |

**Packaging and Weights**

| **Cable weight** | 55.509 kg/km | 37.3 lb/kft |