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 Insulated 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: 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

Material Specifications

Conductor Material: Bare copper
Insulation Material: Polyolefin
Jacket Material: PVC
Separator Material: Polyolefin
Separator 2 Material: Polyolefin

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