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
1091L

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