GigaSPEED X10D® 2091B ETL Verified Category 6A U/UTP Cable

Product Classification

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

Portfolio
SYSTIMAX®

Product Type
Twisted pair cable

Product Brand
GigaSPEED X10D®

General Specifications

Product Number
2091B

ANSI/TIA Category
6A

Cable Component Type
Horizontal

Cable Type
U/UTP (unshielded)

Conductor Type, singles
Solid

Conductors, quantity
8

Note
Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments

Pairs, quantity
4

Separator Type
Isolator

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

Dimensions

Diameter Over Insulated Conductor
0.889 mm | 0.035 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

- **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**: 0.6 A
- **Mutual Capacitance at Frequency**: 6.0 nF/100 m @ 1 kHz
- **Nominal Velocity of Propagation (NVP)**: 66%
- **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**: FEP
- **Jacket Material**: PVC
- **Separator Material**: FEP
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 +75 °C (-4 °F to +167 °F)
Environmental Space
Plenum
Temperature Rating, ETL
105 °C | 221 °F
Temperature Rating, UL
105 °C | 221 °F
Flame Test Method
CMP/FT6
Smoke Test Method
CMP/FT6

Packaging and Weights
Cable weight
60.568 kg/km | 40.7 lb/kft