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

- Ideal solution where space is a concern – 0.265" outer diameter maximum utilizing a specially designed non-conductive tape around the 4 pairs
- Part of the SYSTIMAX GigaSPEED X10D family of products
- Meets and exceeds performance specifications for all channel configurations currently supported by the GigaSPEED X10D system

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- Latin America
- Middle East/Africa
- North America

Portfolio
- SYSTIMAX®

Product Type
- Twisted pair cable

Product Brand
- GigaSPEED X10D®

General Specifications

Product Number
- 1091SD

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

Dimensions

Diameter Over Conductor
- 1.148 mm | 0.045 in

Diameter Over Jacket, nominal
- 6.731 mm | 0.265 in

Jacket Thickness
- 0.406 mm | 0.016 in

Conductor Gauge, singles
- 23 AWG

Cross Section Drawing
**Electrical Specifications**

- **dc Resistance Unbalance, maximum**: 4%
- **dc Resistance, maximum**: 8 ohms/100 m | 2.438 ohms/100 ft
- **Dielectric Strength, minimum**: 1500 Vac | 2500 Vdc
- **LP (Limited Power) Rating**: 0.5 A
- **Mutual Capacitance at Frequency**: 5.6 nF/100 m @ 1 kHz
- **Nominal Velocity of Propagation (NVP)**: 70%
- **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

**Material Specifications**

- **Conductor Material**: Bare copper
- **Insulation Material**: Polyolefin
- **Jacket Material**: PVC
- **Separator Material**: Polyolefin
- **Tape Material**: Poly/Aluminum/Poly

**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      Non-plenum
Temperature Rating, UL    75 °C   |   167 °F
Flame Test Method         CMR

Packaging and Weights

Cable weight              40.18 kg/km   |   27 lb/kft