



SYSTIMAX 360™ GigaSPEED® X10D 91B Series U/UTP Cable

Part of the next generation SYSTIMAX 360™ solutions platform

The SYSTIMAX® 360 GigaSPEED® X10D 91B series U/UTP cable has been redesigned with a smaller diameter, making it the smallest Category 6A cable on the market today. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

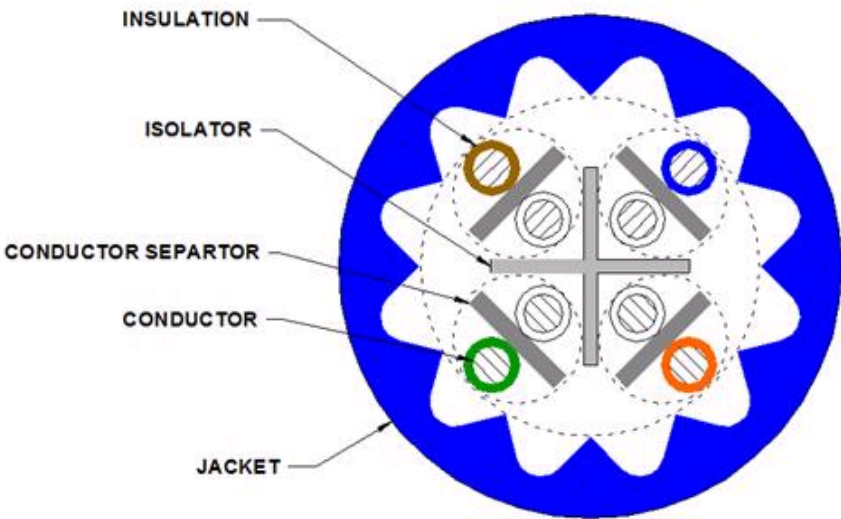
The GigaSPEED X10D U/UTP 91B series cables have been optimized with the GigaSPEED X10D connectors and cords to minimize internal channel crosstalk, and also crosstalk between channels in close proximity. The 91B series cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to withstand an aggressive 6 around 1 channel test that CommScope Labs believes to be the most challenging test configuration. This is a PowerSUM computation of the alien crosstalk noise from 24 pairs of 6 channels surrounding a single 4-pair channel. The 91B series cables have been specified out to 550 MHz to support high bandwidth applications operating at 10 Gb/s.

The 91B series cable is offered in plenum, non-plenum and low smoke zero halogen (LSZH) versions.

- OMT platform reduces cable diameter while optimizing transmission performance
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Systimax Solutions
760107078 | 1091B SL 4/23 W1000
GigaSPEED® X10D 1091B ETL Verified Category 6A U/UTP Cable, slate jacket, 4 pair count, 1000 ft (305 m) length, WE TOTE® box

Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	37.30 lb/kft
Diameter Over Jacket	7.239 mm 0.285 in
Jacket Thickness	1.295 mm 0.051 in

Electrical Specifications

ANSI/TIA Category	6A
dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8.00 ohms/100 m
Mutual Capacitance	6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	65 %
Operating Frequency, maximum	550 MHz

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Operating Voltage, maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2 ISO/IEC 11801 Class EA
Dielectric Strength, minimum	1500 Vac 2500 Vdc

Environmental Specifications

Environmental Space	Non-plenum
Flame Test Method	CMG CMR
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
UL Temperature Rating	75 °C 167 °F

General Specifications

Brand	GigaSPEED® X10D SYSTIMAX®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Color	Slate
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Isolator
Packaging Type	WE TOTE® box
Product Number	1091B

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

