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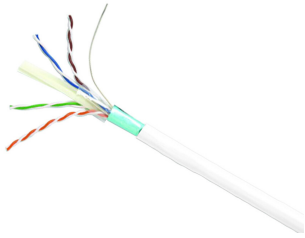### GigaSPEED X10D® 2291B ETL Verified Category 6A F/UTP Cable, plenum, white jacket, 4 pair count, 3000 ft (915 m) length, reel

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	2291B
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	White
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D

Dimensions

Cable Length	914.4 m | 3000 ft
Diameter Over Jacket, nominal	7.01 mm | 0.276 in
Jacket Thickness	0.457 mm | 0.018 in
Conductor Gauge, singles	23 AWG
Drain Wire Gauge	26 AWG

Cross Section Drawing

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Jacket
Pair Insulation
Isolator
Conductor
Core Wrap
Shield
Drain Wire
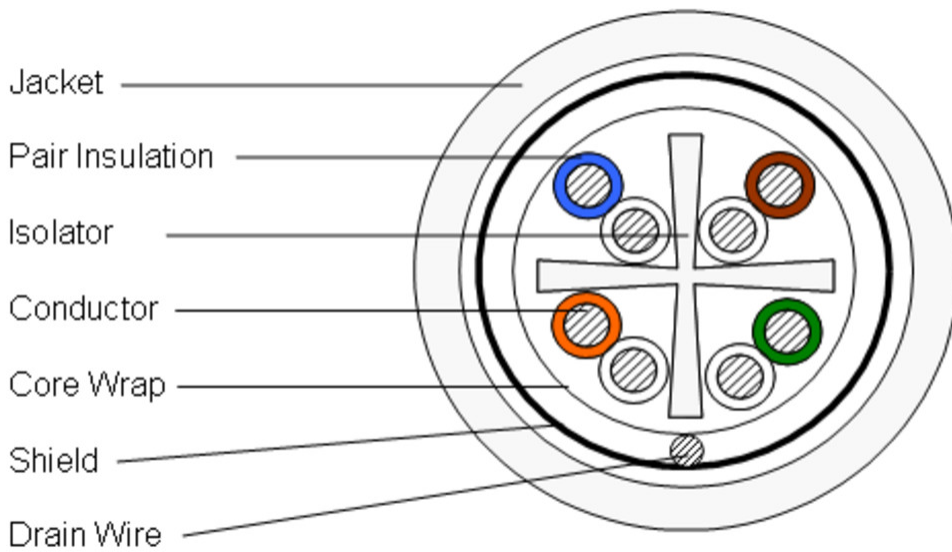
Electrical Specifications

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	0.8 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
Drain Wire Material	Tinned copper
Insulation Material	FEP
Jacket Material	PVC
Separator Material	FEP
Shield (Tape) Material	Aluminum/Poly

Mechanical Specifications

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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	Indoor | Plenum
Temperature Rating, ETL	105 °C | 221 °F
Temperature Rating, UL	105 °C | 221 °F
Fire Safety Listing	CMP | FT6
Flame Test Method	CMP/FT6 | NFPA 262 | UL 444 | UL 910
Safety Standard	UL 444
Smoke Test Method	CMP/FT6 | NFPA 262

Packaging and Weights

Cable weight	58.038 kg/km | 39 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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