

Fiber Optic Patch Cord

Single Mode



Genius Single-Mode (SM) Fiber Patch Cord is designed for high-speed, long-distance optical transmission using 9/125 μm OS2 fiber. It ensures low insertion loss and high return loss for stable, high-bandwidth network performance. Built with precision-polished connectors (LC/SC/FC/ST in UPC/APC) for reliable connectivity. The durable LSZH/PVC jacket provides flexibility and protection for data centre and telecom applications. Ideal for ODFs, switches, transceivers, and FTTH/GPON networks.

Key Features

- Connector ferrule is made of Zirconia
- Standard simplex/duplex LC connectors, customized SC/FC etc
- Factory pre-terminated and 100% performance tested
- Bend Insensitive fiber
- Return Loss ≥ 55 for UPC and ≥ 65 for APC, Insertion loss ≤ 0.30 dB
- RoHS v3 Complied
- Genius Network Brand Warranty for 25 years

Product Specification

Fiber Type	Single Mode - G657 A2
Fiber Count	1 & 2
Core Cladding Diameter	9/125 μ m
Buffer Diameter	0.9 mm
Strength Member	Aramid Yarn
Jacket Material	LSZH
Cable Jacket Color	Yellow
Outer diameter	2 mm x 4 mm
Available Connector Variant	LC/SC/FC/ST
Polishing Type	UPC / APC
Standard Polarity	A-B (Type B)
Connector Ferrule Material	Zirconia Ceramic
Ferrule Concentricity	< 1 μ m
Connector Housing Color	Blue
Connector Boot Color	White / Blue
Min Bending Radius - Static	10D
Min Bending Radius - Dynamic	20D
Max. Tensile strength - Operation	160 N
Max. Tensile strength - Installation	200 N
Compressive strength - short term	150 N / 100 mm
Compressive strength - Long Term	80 N / 100 mm
Standard Length (in Meter)	1 / 3 / 5 / 10 / 15 / 20

Performance Specification

Operating Wavelength	1310 nm / 1550 nm
Max Attenuation of Patch Cord Cable	1310 nm : ≤ 0.36 dB/km, 1550 nm: ≤ 0.22 dB/km
Connector Insertion Loss	≤ 0.30 dB
Connector Return Loss	≥ 55 for UPC and ≥ 65 for APC
Durability - Δ IL(dB)	≤ 0.20 dB @ 500 Cycle

Environmental Specification

Operation temperature	-40°C to +75°C
Storage temperature	-40°C to +75°C
Installation temperature	-05°C to +50°C

Standards, Certifications & Compliances

- RoHS v3 Compliant
- Compliance with ANSI/TIA-568-C.3, ANSI/TIA-568.3-D, ANSI/TIA-568.3-E, ISO/IEC 11801 & EN50173, Telcordia GR-326-CORE, IEC 874-1& ITU-T G.657 A1 / A2
- Compliance with Flammability Test - IEC 60332-1, IEC 60332-3C
- Compliance with Halogen Free - IEC 60754-1
- Compliance with Corrosion Proof - IEC 60754-2
- Compliance with Smoke Density Test - IEC 61034
- Compliance with Minimum concentration of oxygen - ASTM D2863

Ordering Information

Part Number	Product Description
GFS2PDLCDPCLZ01	Genius Fiber patch cord Single Mode LC-LC LSZH PC 1 mtr
GFS2PDLCDPCLZ02	Genius Fiber patch cord Single Mode LC-LC LSZH PC 2 mtr
GFS2PDLCDPCLZ03	Genius Fiber patch cord Single Mode LC-LC LSZH PC 3 mtr
GFS2PDLSCPCLZ01	Genius Fiber patch cord Single Mode LC-SC LSZH PC 1 mtr
GFS2PDLSCPCLZ02	Genius Fiber patch cord Single Mode LC-SC LSZH PC 2 mtr
GFS2PDLSCPCLZ03	Genius Fiber patch cord Single Mode LC-SC LSZH PC 3 mtr
GFS2PDSCDPCLZ01	Genius Fiber patch cord Single Mode SC-SC LSZH PC 1 mtr
GFS2PDSCDPCLZ02	Genius Fiber patch cord Single Mode SC-SC LSZH PC 2 mtr
GFS2PDSCDPCLZ03	Genius Fiber patch cord Single Mode SC-SC LSZH PC 3 mtr

Note : Last 2 Digit of Part number is Indicate Patch cord length

