

# Fiber Optic Patch Cord

## Single Mode – Armored Single Jacket Black



**Genius** Single Mode Armored Fiber Patch Cord is built with 9/125µm fiber for fast and dependable data transmission. The stainless-steel spiral armoring provides excellent rodent protection and resistance to crush and bending stresses. It ensures minimal insertion loss with consistent optical performance. It delivers secure connectivity, making it suitable for rugged environments.

## Key Features

- Connector ferrule is made of Zirconia
- Spiral armored protection up to connector entry point
- Rodent-resistant design with enhanced mechanical strength
- Standard duplex LC connectors, customized SC/FC etc
- Factory pre-terminated and 100% performance tested
- RoHS v3 Compliant
- Genius Network Brand Performance Warranty for 25 years



## Product Specification

Fiber Type	SM G657 A2
Fiber Count	2F (Single Outre Jacket)
Core Cladding Diameter	9/125 um
Strength Member	Aramid Yarn
Armouring Type	Spiral Armored SUS204
Jacket Material	LSZH
Cable Jacket Color	Black
Cable Outer Diameter	4.80 mm $\pm$ 0.20 mm
Breakout Length	275mm $\pm$ 25 mm
Available Connector Variant	LC / SC
Standard Polarity	A-B (Type B)
Connector Ferrule Material	Zirconia Ceramic
Connector Housing Color	Blue
Connector Boot Color	White
Min Bending Radius - Static	10D
Min Bending Radius - Dynamic	20D
Max. Tensile strength (Short Term)	450 N
Max. Tensile strength (Long Term)	350 N
Compressive strength (short term)	5000 N / 100 mm
Compressive strength (Long Term)	3000 N / 100 mm

## Performance Specification

Operating Wavelength	1310 nm / 1550 nm
Max Attenuation of Patch Cord Cable	$\leq$ 0.4 dB/km @ 1310 nm $\leq$ 0.3 dB/km @ 1550 nm Typical: $\leq$ 0.2 dB, Max: $\leq$ 0.3 dB
Connector Insertion Loss	$\leq$ 0.2 dB
Connector Return Loss	$\geq$ 50 dB
Durability - $\Delta$ IL(dB)	$\leq$ 0.20 dB @ 500 Cycle

## Environmental Specification

Operation temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Installation temperature	-10°C to +60°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,
- Compliance with Flammability Test - IEC 60332-1
- Compliance with Halogen Free - IEC 60754-1
- Compliance with Smoke Density Test - IEC 61034
- Compliance with Minimum concentration of oxygen - ASTM D2863

## Ordering Information

Part Number	Product Description
GFS2PDLCDLZ01_B	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 1 mtr Black
GFS2PDLCDLZ02_B	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 2 mtr Black
GFS2PDLCDLZ03_B	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 3 mtr Black
GFS2PDLSCDLZ01_B	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 1 mtr Black
GFS2PDLSCDLZ02_B	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 2 mtr Black
GFS2PDLSCDLZ03_B	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 3 mtr Black
GFS2PDSCDLZ01_B	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 1 mtr Black
GFS2PDSCDLZ02_B	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 2 mtr Black
GFS2PDSCDLZ03_B	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 3 mtr Black

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