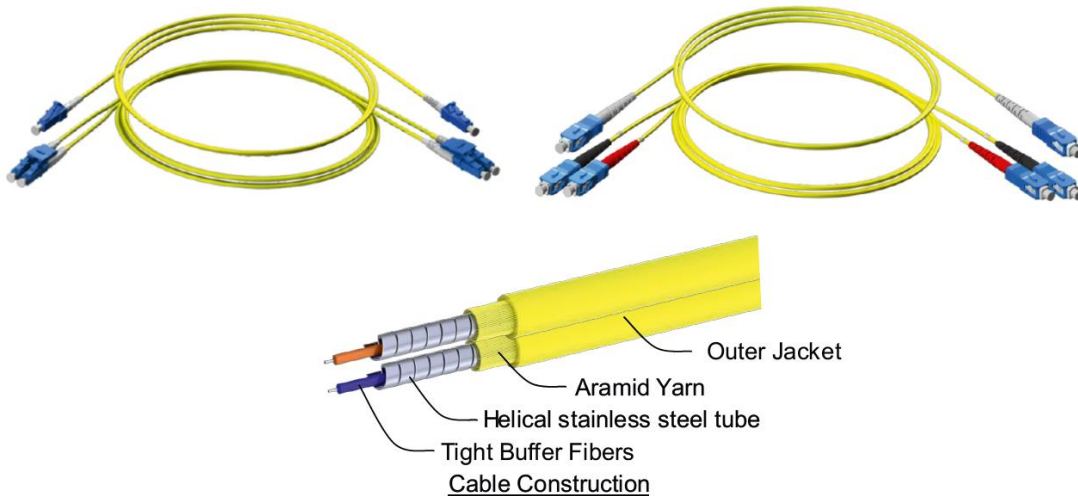


Fiber Optic Patch Cord

Single Mode - Armoured



Genius Single-Mode Armoured Fiber Patch Cord uses 9/125 μm OS2 fiber for long-distance, high-bandwidth transmission with low attenuation. The stainless-steel armoring provides superior protection against crushing, bending, and rodent damage. It delivers low insertion loss and high return loss for stable optical performance. Precision connectors (LC/SC/FC/ST, UPC/APC) ensure reliable connectivity. Ideal for industrial, outdoor, and harsh-environment network installations

Key Features

- Connector ferrule is made of Zirconia
- Standard simplex/duplex LC connectors, customized SC/FC etc
- Factory pre-terminated and 100% performance tested
- Spiral armored design with rodent resistance
- RoHS v3 Compliant
- Genius Network Brand Performance Warranty for 25 years



Product Specification

Fiber Type	Single Mode - G657 A2
Fiber Count	2F
Core Cladding Diameter	9/125 um
Strength Member	Aramid Yarn
Armouring Type	Helical stainless-steel tube
Jacket Material	LSZH
Cable Jacket Color	Yellow
Available Connector Variant	LC / SC
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 – Short Term	2000 N
Max. Tensile strength – Long Term	800 N
Compressive strength - Short term	3000 N / 100 mm
Compressive strength - Long Term	2000 N / 100 mm
Standard Length (in Meters)	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	Typical: ≤ 0.2 dB, Max: ≤ 0.3 dB
Connector Return Loss	≥ 55 for UPC and ≥ 65 for APC
Durability - Δ IL(dB)	≤ 0.20 dB @ 500 Cycle

Environmental Specification

Operation temperature	-10°C to +70°C
Storage temperature	-20°C to +80°C
Installation temperature	0°C to +70°C

Standards, Certifications & Compliances

- RoHS v3 Complaint
- Compliance with ANSI/TIA-568-C.3, ANSI/TIA-568.3-D, ANSI/TIA-568.3-E, ISO/IEC 11801 2nd Ed & EN50173,
- Compliance with TIA/EIA-604 -10 (FOCIS 10), TIA/EIA-604 -3 (FOCIS 3), Telcordia GR-326-CORE, IEC 874-1, ITU-T G.657 A1 / A2 / G652D
- Compliance with Flammability Test - IEC 60332-1, IEC 60332-3C
- Compliance with Halogen Free Test- 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	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 1 mtr
GFS2PDLCDLZ02	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 2 mtr
GFS2PDLCDLZ03	Genius Fiber Optic Armored patch cord Single Mode LC-LC LSZH PC 3 mtr
GFS2PDLSCDLZ01	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 1 mtr
GFS2PDLSCDLZ02	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 2 mtr
GFS2PDLSCDLZ03	Genius Fiber Optic Armored patch cord Single Mode LC-SC LSZH PC 3 mtr
GFS2PDSCDLZ01	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 1 mtr
GFS2PDSCDLZ02	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 2 mtr
GFS2PDSCDLZ03	Genius Fiber Optic Armored patch cord Single Mode SC-SC LSZH PC 3 mtr

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



Note – Any specification in the data sheet including Design, Performance, Measurement and standards may change without prior notice by **Net Gen Innovations Private Limited** as part of continuous Improvement – Always download data sheet from genius-net.com for latest version