



Data-Sheet

Optical Fiber Patch Cable

Optical Fiber Patch Cables

Telecom grade patch cords are designed for low loss telecommunication applications. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects. JTOPTICS Fiber patch cords are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss.



- SC: TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.
- LC: TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973.
- FC: EIA /TIA-604-04, FOCIS4, NTT-FC, GR-326. IEC61754-13 and JIS C5973
- ST: TIA/EIA, FOCIS2, GR-326. IEC61754-2 and JIS C5973 Etc.
- E2000: IEC61754-15

JTOPTICS patch cables adhere to industry standards, including IEC 62005, BS-EN 61754, IEC 61300, and Telcordia GR-326-CORE. Designed for Telecom and Data Center needs, they are available in OM3, OM4, OM5, or OS2 fiber types. Each terminator undergoes meticulous parameter testing to guarantee optimal network performance.



- Enhanced optical performance to meet telecom requirement
- Cable with IEC 60332-3-24 fire performance
- IEC, EIA/TIA and Telcordia compliant
- RoHS, REACH and SvHC compliant
- High-quality connectors and Zirconia Ceramic Ferrule
- Low insertion Loss and High Return Loss



Name	Single Mode OS2 Duplex Patch Cable	Multi-Mode OM3 Duplex Patch Cable	Multi-Mode OM4 Duplex Patch Cable	Multi-Mode OM5 Duplex Patch Cable
Connector A End	LC/SC/FC/ST	LC/SC/FC/ST	LC/SC/FC/ST	LC/SC/FC/ST
Connector B End	LC/SC/FC/ST	LC/SC/FC/ST	LC/SC/FC/ST	LC/SC/FC/ST
Polish A End	UPC/APC	PC	PC	PC
Polish B End	UPC/APC	PC	PC	PC
Insertion Loss	≤0.25dB	≤0.35dB	≤0.35dB	≤0.35dB
Return Loss	≥55dB	≥25dB	≥25dB	≥25dB
Wavelength	1310/1550nm	850/1300nm	850/1300nm	850/1300nm
Fiber Grade	Single Mode G.657.A1	Multimode OM3	Multimode OM4	Multimode OM5
Fiber Count	Duplex	Duplex	Duplex	Duplex
Jacket Material	OFNR/LSZH	OFNP/LSZH	OFNP/LSZH	OFNP/LSZH
Jacket Color	Yellow	Aqua Blue	Violet Pink	Green
Cable OD	2.0mm	2.0mm	2.0mm	2.0mm
Strength Member	Aramid	Aramid	Aramid	Aramid
Polarity	A(Tx) to B(Rx)	A(Tx) to B(Rx)	A(Tx) to B(Rx)	A(Tx) to B(Rx)
Cable Retention	90N	90N	90N	90N
Minimum Bend Radius	7D (installed) - 10D (loaded)	10D (installed) - 20D (loaded)	10D (installed) - 20D (loaded)	10D (installed) - 20D (loaded)
Fiber Type	9/125μm, SM G657a	50/125μm, OM3	50/125μm, OM4	50/125μm, OM5
Operating Temp Range	-40~70°C	-40~70°C	-40~70°C	-40~70°C
Storage Temp Range	-45~85°C	-45~85°C	-45~85°C	-45~85°C
Applications	1G to 800G	40G/100G	40G/100G/200G	100G/200G/400G/800G

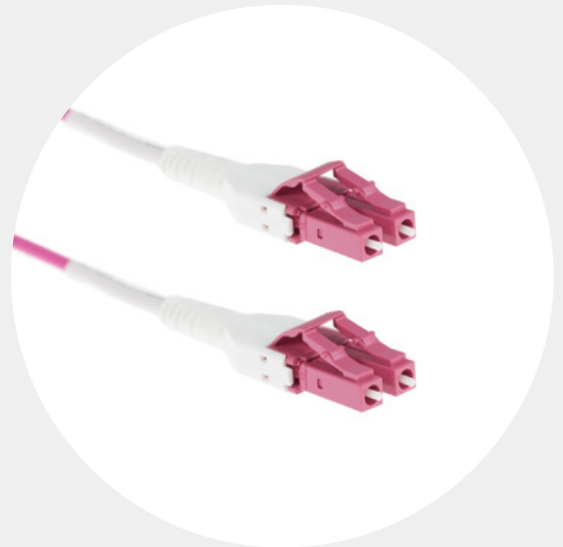


FLEXIBLE ANGLE BOOT CONNECTOR

JTOPTICS offers flexible angle boots designed for LC and SC fiber optic connectors, compatible with both single-mode and multimode patch cords. Installers can pre-bend the boot into any direction or angle, maintaining the position for optimal network performance. The flexibility allows for reshaping at any time or straightening during connector disconnection, facilitating perfect installations in unique applications like tight constraint areas or high-density environments. These fiber optic patch cords with LC and SC flex boots are ideal for cable management situations requiring additional fiber bend protection.

UNIBOOT CONNECTOR

JTOPTICS uniboot LC-LC Fiber patch cable is constructed with advanced flat clip Uniboot LC connectors, specifically tailored for high-density data center settings, as seen in UHD series products. Its streamlined design reduces bulk fiber optic cabling by 50% compared to traditional duplex cables, featuring a thinner body. The cable employs a unique "round duplex" design, enabling duplex transmission within a single 2mm cable. These characteristics enhance airflow and visibility in high-density network environments.



UNIBOOT PUSH-PULL CONNECTOR

JTOPTICS uniboot LC connector featuring the Push-Pull Tab is a distinctive design that enables easy polarity switching without the need for any tools. The Push/Pull Tab is ergonomically designed, making it effortless to insert and pull out from the LC adapter. An additional innovative feature is the removable tab after insertion, streamlining the installation process and enhancing overall efficiency.





End-Face Inspection



Insertion Loss Testing



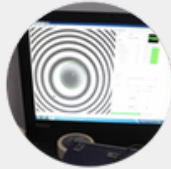
Return Loss Testing



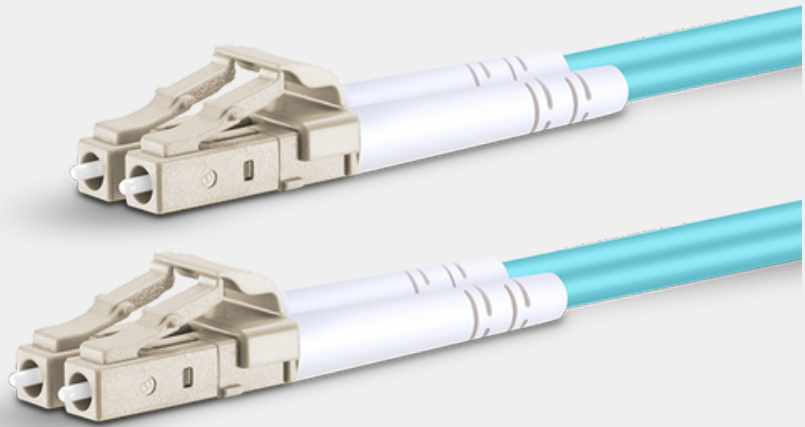
Continuity Test



End Face Geometry Test



3D Test



ORDERING INFORMATION

Brand		A End		Polish		B End		Polish		Fiber		Cable		Jacket		Length (Meter)		Boot Type		Quality	
JTPC	JTOPTICS	LC	LC	A	APC	LC	LC	A	APC	OM3	OM3	SX	Simplex	LZ	LSZH	XX	0-99	Standard	S	Standard	
XXXX	OEM	SC	SC	P	UPC	SC	SC	P	UPC	OM4	OM4	DX	Duplex	PV	PVC			UB	Uni-boot	P	Premium
		FC	FC			FC	FC			OM5	OM5			OR	OFNR			PU	Push-Pull	A	Armored
		ST	ST			ST	ST			OS2	OS2			OP	OFNP			FB	Flex Boot		
		E2	E2000			E2	E2000												MB	Mini Boot	

JTPC-LC-P-LC-P-OS2-DX-LZ-XX-UB-P

About JT

In the dynamic realm of technology and innovation, the emergence of **Jayani Technologies Limited** has been nothing short of a saga marked by ingenuity, resilience, and a steadfast commitment to excellence. Originating as Jayani Technologies LLP in 2011 in the vibrant city of Mumbai, India, the company has evolved into a trailblazer in its domain. This narrative unfolds against the backdrop of the company's expansion into Hong Kong, a strategic move signaling its intent to conquer new horizons.

Established in 2011, Jayani Technologies (**JTOPTICS**[®]) was conceived as a response to the evolving technological landscape, recognizing the need for cutting-edge solutions that marry innovation with reliability. The Mumbai headquarters became the crucible for the company's early endeavor, a melting pot of talent and vision that propelled Jayani Technologies into the forefront of its industry and emerged as a leading manufacturer and supplier of cutting-edge solutions in the fields of optical Fiber, data center, networking, and electric vehicle components.

From its inception, the company distinguished itself by its unwavering commitment to client satisfaction, a commitment that became the cornerstone of its success. Jayani Technologies quickly became synonymous with technological prowess and an unwavering dedication to delivering solutions that transcended conventional boundaries.

JTOPTICS[®] has developed and produced many active and passive interconnection and connectivity products suitable for different networks, aiming to become a one-stop device integration solution provider in the open optical network field, products include MPO Cables, AOC cable, passive DAC cable, optical transceivers, optical modules & subsystems, active & passive optical components, and high-density cabling products.

Vision

Our vision is to be recognized by clients as trustful a trusted business partner whose mission is to help our clients by offering state-of-the-art products and services.

Mission

Our mission is to catalyze the success of its clients by providing unparalleled technological solutions. The company envisions itself as a catalyst for positive change, aiming to reshape industries through innovation, integrity, and a relentless pursuit of excellence.



Our Clients

ciena

ADVA
Optical Networking

colt

CISCO

Coriant

MAVENIR



इसरो isro

JUNIPER
NETWORKS

TEJAS
NETWORKS

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS

HITACHI

एनटीपीसी
NTPC

TATA

LARSEN & TOUBRO



Our Contact



+91-86-9309-9309



info@jtoptics.com



www.jtoptics.com



***409-410 Lodha I-Think, B-Block, Palava,
Dombivali (E), Thane, MH 421204***

Hongkong

India

Singapore

Malaysia

Qatar

JAYANI TECHNOLOGIES LLP