

# Data-Sheet

---

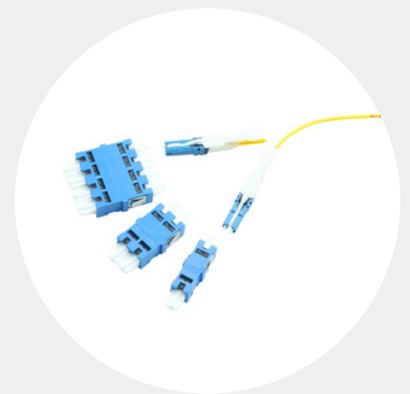
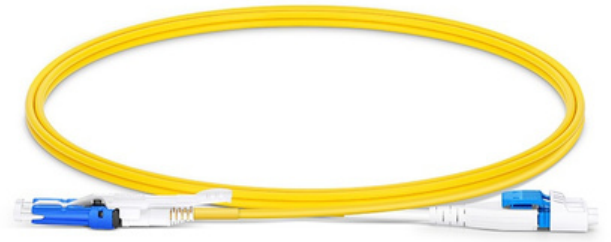
## CS™ Optical Fiber Patch Cable

# CS™ Connector Based Patch Cables

JTOPTICS High Quality 2F and 4F CS-CS Fiber Patch Cord uses Senko's new CS connector which is specifically designed for Data Centre 400G optimization. To accommodate the "lightspeed" upgrades currently taking place in hyperscale DCs, the reduced size CS Connector is not only capable of delivering low insertion and high return loss comparable to existing LC connectors, but with significantly reduced footprint.

The CS connector meets the requirement for 2x100G/200G CWDM4 transceivers requiring two pairs of TX/RX. Our CS Cable Assembly support next-generation 200/400 Gbps QSFP-DD and OSFP transceivers with optimized performance and comply with TIA 604 (FOCIS), IEC 61754 and YD/T industry standards.

Senko CS™ connector is a Very Small Form Factor (VSFF) duplex optical connector and is manufactured using 1.25mm ceramic ferrule technology. Push-pull tabs can easily be inserted and removed from high density cabling without special tooling. It is designed for high-density fiber patching in 200/400/800G data centers which need space saving and reduce cable management problems.



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



Name	2 Fiber Single Mode OS2 Duplex CS-CS Uniboot Patch Cable	2 Fiber Single Mode OS2 Duplex CS-LC Uniboot Patch Cable	4 Fiber Single Mode OS2 Duplex CS-CS Uniboot Patch Cable	4 Fiber Single Mode OS2 Duplex CS-LC Uniboot Patch Cable
<b>Part Code</b>	JTPCCSPCSPPOS2DXLZXXUBP	JTPCCSPCSPPOS2DXLZXXUBP	JTPCCSPCSPPOS2QXLZXXUBP	JTPCCSPCSPPOS2QXLZXXUBP
<b>Connector A End</b>	CS	CS	CS	CS
<b>Connector B End</b>	CS	LC	CS	LC
<b>Polish A End</b>	UPC	UPC	UPC	UPC
<b>Polish B End</b>	UPC	UPC	UPC	UPC
<b>Insertion Loss</b>	≤0.25dB	≤0.25dB	≤0.25dB	≤0.25dB
<b>Return Loss</b>	≥55dB	≥55dB	≥55dB	≥55dB
<b>Wavelength</b>	1310/1550nm	1310/1550nm	1310/1550nm	1310/1550nm
<b>Fiber Grade</b>	Single Mode G.657.A1	Single Mode G.657.A1	Single Mode G.657.A1	Single Mode G.657.A1
<b>Fiber Count</b>	Duplex	Duplex	2 x Duplex	2 x Duplex
<b>Jacket Material</b>	OFNR/LSZH	OFNR/LSZH	OFNR/LSZH	OFNR/LSZH
<b>Jacket Color</b>	Yellow	Yellow	Yellow	Yellow
<b>Cable OD</b>	2.0mm	2.0mm	4.0mm	4.0mm
<b>Strength Member</b>	Aramid	Aramid	Aramid	Aramid
<b>Polarity</b>	A(Tx) to B(Rx)	A(Tx) to B(Rx)	A(Tx) to B(Rx)	A(Tx) to B(Rx)
<b>Cable Retention</b>	90N	90N	90N	90N
<b>Minimum Bend Radius</b>	7D (installed) - 10D (loaded)	7D (installed) - 10D (loaded)	7D (installed) - 10D (loaded)	7D (installed) - 10D (loaded)
<b>Fiber Type</b>	9/125μm, SM G657a	9/125μm, SM G657a	9/125μm, SM G657a	9/125μm, SM G657a
<b>Operating Temp Range</b>	-40~70°C	-40~70°C	-40~70°C	-40~70°C
<b>Storage Temp Range</b>	-45~85°C	-45~85°C	-45~85°C	-45~85°C
<b>Applications</b>	200G/400G	200G/400G	200G/400G	200G/400G



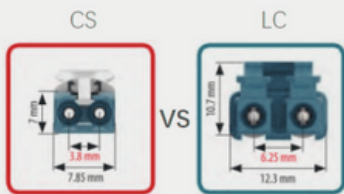
End-Face Inspection



Insertion Loss Testing



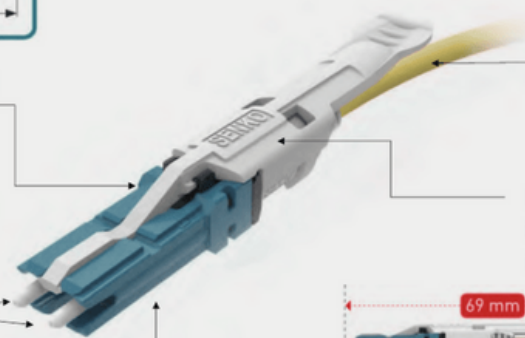
Return Loss Testing



40% Higher Density compared to LC connector

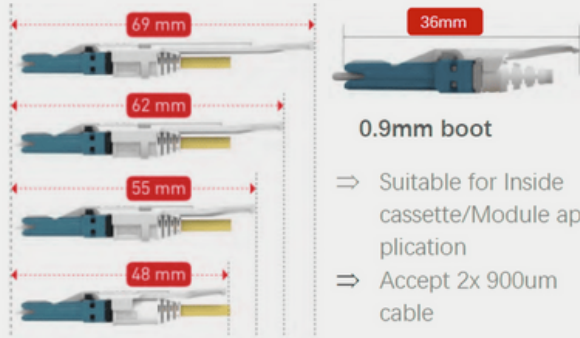
2x LC style Ferrule Increase Reliability

- ⇒ SM CS/UPC available
- ⇒ SM CS/APC available
- ⇒ MM CS/UPC available



2.0/3.0mm Ruggedized cable

Push pull tab for superior manageability in high density applications comes in various length and styles

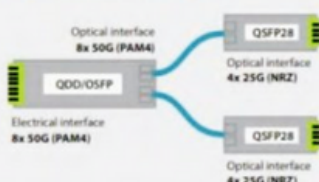


⇒ 2.0/3.0mm Boot

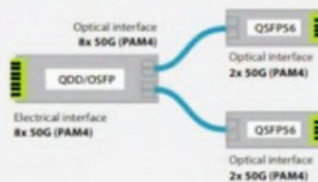
0.9mm boot

- ⇒ Suitable for Inside cassette/Module application
- ⇒ Accept 2x 900um cable

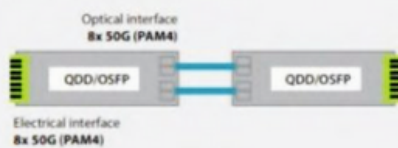
**2x 100G in 400G switch using QDD/OSFP to 2x QSFP28**



**2x 200G in 400G switch using QDD/OSFP to 2x QSFP56**



**400G to 400G using QDD/OSFP to OSFP**



# 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**<sup>®</sup>) 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<sup>®</sup> 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**<sup>™</sup>  
Optical Networking

**colt**

**CISCO**

**Coriant**

**MAVENIR**



**इसरो isro**

**JUNIPER**  
NETWORKS

**TEJAS**<sup>®</sup>  
NETWORKS

**भारत इलेक्ट्रॉनिक्स**  
**BHARAT ELECTRONICS**

**HITACHI**

**एनटीपीसी**  
**NTPC**

**TATA**

**LARSEN & TOUBRO**





# Our Contact



+91-86-9309-9309



[info@jtoptics.com](mailto:info@jtoptics.com)



[www.jtoptics.com](http://www.jtoptics.com)



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

**Hongkong**

**India**

**Singapore**

**Malaysia**

**Qatar**

**JAYANI TECHNOLOGIES LLP**