

# SN Patchcord

## Description:

The SN<sup>®</sup> connector is a new duplex optical fiber connector designed for Data Center 400G optimization. The SN<sup>®</sup> connector was designed to provide individual and independent duplex fiber breakout at a quad style transceiver (QSFP, QSFP-DD, OSFP) as a more efficient, increased reliability, and a lower cost alternative than the MPO connector. SN<sup>®</sup> has two LC style 1.25 mm diameter zirconia ferrules in a single housing, pitched 3.1 mm apart vs 6.25 mm in a duplex LC connector.



## Features:

- Effective size reduction compared to LC Duplex
- Designed for OSFP/QSFP-DD Break out application
- Proven 1.25 mm ferrule technology
- 4 duplex connectors (total 8-fibers) in OSFP/QSFP-DD footprint
- 1.6 and 2.0 mm duplex jacketed cable
- IEC random mating Grade B

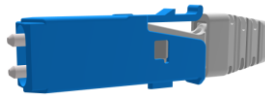
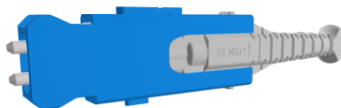
## Specifications:

	MM PC	SM Ultra PC Grade B	SM Angle PC Grade B
Insertion loss (IL) (IEC 61300-3-4)	0.25 dB typ 0.50 dB 97%	0.12 dB typ 0.25 dB 97%	0.15 dB typ 0.25 dB 97%
Return loss (RL) (IEC 61300-3-6)	>25 dB	>55 dB	>65 dB
Housing color	Aqua	Blue	Green
Boot color	White	White	White
Assembly procedure	glue and polish		
Connection	physical contact		
Lock mechanism	push-pull tab		
Standards	IEC/EN		
Ferrule material	full ceramic zirconia 1.25 mm		
Connector material	thermoplastic		
Adapter material	polymer composite, zirconia sleeve		

## SN connector variants

Patchcord cable 1.6 & 2.0 mm

Pigtail fiber 2x 0.9 mm



SN connector 1.6 mm and 2.0 mm

Compact BTW

Junior BTW

Mini BTW

Note: 1) Other SN connector type Uniboot and Gang-clip on request

## Ordering code – SN patchcord/pigtail:

AAA		- XX XXX -	XX	-	XXX
<b>AAA - Connector</b>					<b>XXX - length [m]</b>
<b>Type</b>	<b>Description</b>				
<b>SN</b>	Duplex SN/PC multimode				
<b>USN</b>	Duplex SN/UPC, Grade B				
<b>NSN</b>	Duplex SN/APC, Grade B				
<b>Dimensions: Cable type</b>					
		<b>XX - type (pigtail or patchcord)</b>			
		<b>JC</b> patchcord A-B crossed			
		<b>JS</b> patchcord A-A straight			
		<b>PT</b> pigtail tight buffered, strip in one shot < 10 cm			
		<b>PS</b> semitight 20-30 cm in one shot			
		<b>PD</b> pigtail easy strip > 100 cm			
		<b>XX - diameter of fiber, cable</b>		<b>XXX - type of fiber</b>	
		Fiber 0.9 mm		OM2-5 MM 50/125 μm	
		<b>09J</b> Ø 0.9 mm, Junior type		<b>S2D</b> SM 9/125 μm (G.652D)	
		<b>09C</b> Ø 0.9 mm, Compact type		<b>S7X</b> SM 9/125 μm (G.657X)	
		<b>09M</b> Ø 0.9 mm, Mini type			
		Duplex cable			
		<b>R1</b> Ø 1.6 mm round cable			
		<b>R2</b> Ø 2.0 mm round cable			



JC duplex crossed patchcord A-to-B



JS duplex straight patchcord A-to-A

## Ordering code – adapters:

Non-Shuttered Adapters	Non-Shuttered SC Footprint	Compact Adapters SC Footprint
1-channel – 2 fibers (691-21) 4-channel – 8 fibers (694W-21) Mates Standard, and Junior connectors	SC Footprint: Single 2-channel (672-21) Duplex 4-channel (674-21) Mates Standard, and Junior connectors	SC Footprint: Single 3-channel (693-31) Duplex 6-channel (696-31) Mates Compact connectors
Shuttered Adapters	Shuttered Adapters SC Footprint	Mini Shuttered Adapters
1-channel – 2 fibers (69A-11) 4-channel – 8 fibers (69D-21) 4-ch Uniboot and Gang-clip compatible	SC Footprint: Single 2-channel (67B-21) Duplex 4-channel (67D-21)	4-channel – 8 fibers (6MD-21) BTW Mini connectors SN Uniboot & Gang-clip compatible

**Code example: A-SN/(A)PC-XXX:**

XXX – use the yellow highlighted number from the table  
Color: PC – blue, APC – green