

SN Patchcord

Description:

The SN® connector is a new duplex optical fiber connector designed for Data Center 400G optimization. The SN® 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® 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.

The SN® connector supports up to 1.6 mm jacketed cable



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 mm jacketed cable
- IEC random mating Grade B

Specifications:

Insertion loss (IL) (IEC 61300-3-4)	MM PC	SM Ultra PC Grade B	SM Ultra PC Grade A
	0.25 dB typ 0.50 dB 97%	0.12 dB typ 0.30 dB 97%	0.06 dB typ 0.15 dB 97%
Return loss (RL ¹) (IEC 61300-3-6)	>35 dB	>55 dB	>55 dB
Housing color	Aqua	Blue	Blue
Boot color	White / Black	White / Black	White / Black
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		

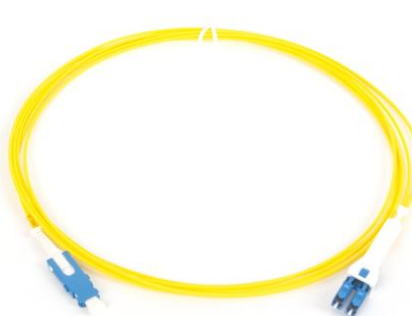
Application:

- Next generation Telecom & LAN, WAN
- Next generation 200/400G transceiver QSFP-DD and OSFP

Patchcord sample:



USN-R1 S7A-JC-003

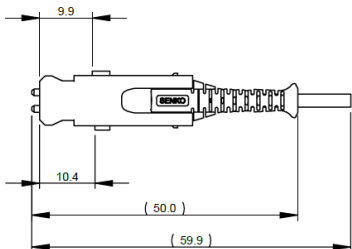
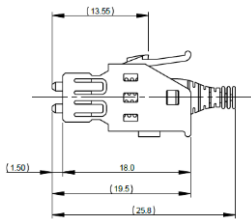
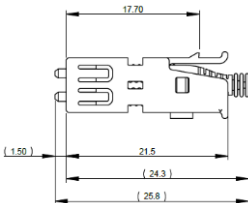


USN-ULCDF-R1 S7A-JC-003



Duplex LC Uniboot
with Flip

Ordering code:

AAAXX		- XX XXX -	XX	-	XXX
AAA - Connector					XXX - length [m]
Type	Description				
SN	Duplex CS/PC multimode				
USN	Duplex CS/UPC, Grade B				
USN1	Duplex CS/UPC, Grade A				
ULCDF	Duplex LC Uniboot with Flip				
Dimensions: Cable 1.6 mm type					
					
					
					
					
					

X - type (pigtail or jumper)

JC	jumper A-B crossed
JS	jumper A-A straight
PT	pigtail tight buffered, strip in one shot < 10 cm
PS	semitight 20-30 cm in one shot
PD	pigtail easy strip > 100 cm

XX - diameter of fiber, cable

fiber

091 fiber Ø 0.9 mm, BTW1 type

092 fiber Ø 0.9 mm, BTW2 type

duplex cable

R1 Ø 1.6 mm round cable

XXX - type of fiber

OM2-5 MM 50/125 µm

S2D SM 9/125 µm (G.652D)

S7X SM 9/125 µm (G.657X)

Adaptors:

1 channel (2F)

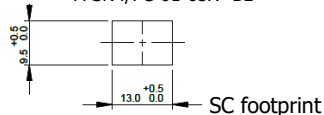


A-SN2/PC-01-02-BL

2 channel (4F)



A-SN4/PC-01-05X¹-BL

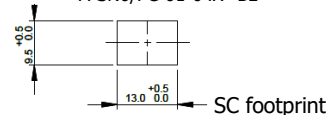


SC footprint

3 channel (6F)



A-SN6/PC-01-04X²-BL



SC footprint

4 channel (8F)

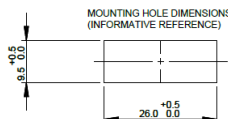


A-SN8/PC-01-02-BL

4 channel (8F)



A-SN8/PC-01-05D³-BL

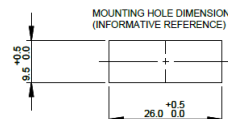


Duplex SC

6 channel (12F)



A-SN12/PC-01-04D⁴-BL



Duplex SC

Note: 1) -05X SC single footprint, no flange, metal clip
2) -04X SC single footprint, no flange, plastic clip
3) -05D SC duplex footprint, no flange, metal clip
4) -04D SC duplex footprint, no flange, plastic clip