SN Patchcord

Description:

PRELIMINARY DATASHEET

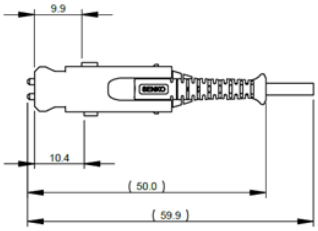
The SN® connector is a new duplex optical fiber connector designed for Data Center 400G optimization. The SN® connector was designed to provide individual and independent duplex fiber breakout at a quad style transceiver (QSFP, QSFP-DD, OSFP) as a more efficient, increased reliability, and a lower cost 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:

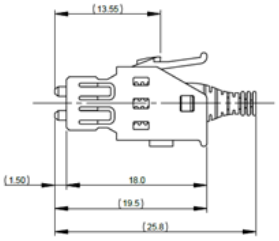
- Effective size reduction compared to LC Duplex
- Designed for OSFP/QSFP-DD Break out application
- Proven 1.25 mm ferrule technology
- 4 Duplex connectors (total 8-fibers) in OSFP/QSFP-DD footprint
- 1.6 mm jacketed cable
- IEC random mating Grade B

Specifications:

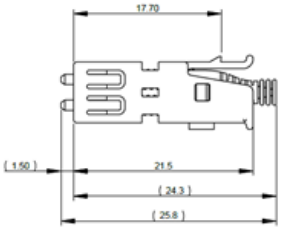
Insertion loss (IL) (IEC 61300-3-4)	MM PC	SM Ultra PC Grade B	SM Ultra PC Grade A
	0.25 dB typ 0.50 dB 97%	0.12 dB typ 0.30 dB 97%	0.06 dB typ 0.15 dB 97%
Return loss (RL1) (IEC 61300-3-6)	>35 dB	>55 dB	>55 dB
Housing color	Aqua	Blue	Blue
Boot color	White	White	White
Assembly procedure	glue and polish		
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		



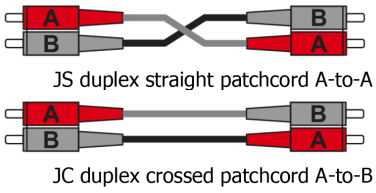
Dimensions: Cable 1.6 mm type



BTW1



BTW2



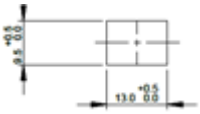
Adaptors:

1 channel (2F)

A-SN2/PC-01-02-BL

2 channel (4F)

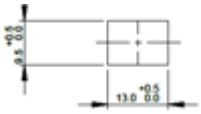
A-SN4/PC-01-05X1-BL



SC footprint

3 channel (6F)

A-SN6/PC-01-04X2-BL



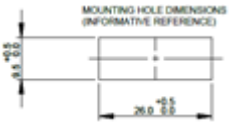
SC footprint

4 channel (8F)

A-SN8/PC-01-02-BL

4 channel (8F)

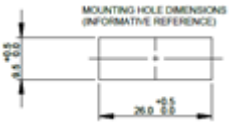
A-SN8/PC-01-05D3-BL



Duplex SC

6 channel (12F)

A-SN12/PC-01-04D4-BL



Duplex SC

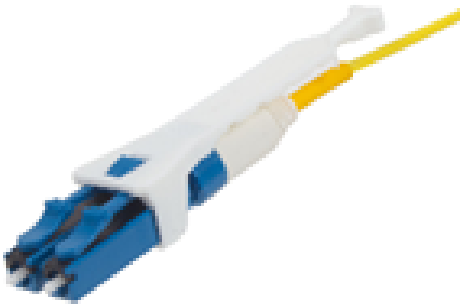
Note: 1) -05X SC single footprint, no flange, metal clip
2) -04X SC single footprint, no flange, plastic clip
3) -05D SC duplex footprint, no flange, metal clip
4) -04D SC duplex footprint, no flange, plastic clip

Application:

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

Patchcord sample:

USN-ULCDF-R1 S7A-JC-003



Duplex LC Uniboot with Flip

Ordering code:

AAAXX - XX XXX - XX - XXX

AAA - Connector

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

XXX - length [m]

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		**XXX - type of fiber**	
fiber			
091	fiber Ø 0.9 mm, BTW1 type	**OM2-5**	MM 50/125 µm
092	fiber Ø 0.9 mm, BTW2 type		
duplex cable		**S2D**	SM 9/125 µm (G.652D)
R1	Ø 1.6 mm round cable	**S7X**	SM 9/125 µm (G.657X)