

SN[®]-MT CONNECTOR

12-Fiber, Single Row

24-Fiber, Dual Row

250 μ m



SENKO's SN[®]-MT is an extension of the SN[®] range and incorporates a single, compact SN[®]-MT ferrule with the option of 12 x 250 μ m fibers in a single row or 24 x 250 μ m fibers in a dual row to support widely deployed 250 μ m jacketed and bare ribbon fiber installations. Subsequently, the SN[®]-MT ferrule can achieve 2.7 times the density of MPO24 whilst leveraging the same proven alignment methods. This combination ensures low-loss performance for singlemode and multimode APC applications whilst delivering optimized patch-panel density required in today's Hyperscale data centers.

The SN[®]-MT connector is suitable for ganged installations where as many as four connectors can be patched simultaneously to a 4-port adapter. This function converts the connector from a 16F connector to a 64F connector and makes it ideal for high-density trunk applications.

FEATURES

- Low-loss, compact SN[®]-MT ferrule
- 2.7 x denser than MPO24 per 1R
- Max. insertion loss 0.35 dB
- Push-pull boot for fast and simple MACs
- Optimized for 800G data rates with QSFP-DD, OSFP and SFP-DD transceivers
- Up to 4 x SN[®]-MT connectors per transceiver
- Wide range of connector and adapter types for legacy upgrades or greenfield applications

APPLICATIONS

- High-density trunks and patching
- Co-packaged optics
- High-density, high-data rate switches
- AI and super-compute clusters
- QSFP-DD and OSFP transceiver links
- Hyperscale, edge, enterprise and colocation data centers

KEY BENEFITS

- ✓ **2.7 x denser than MPO**
- ✓ **Future-proofed for next-gen data rates**

Mechanical Data

	Value
Durability	50 matings per GR-1435-Core
Fiber Count	Multi-fiber (12 or 24 Fibers)
Cable Suitability	2.0 mm and 2.6 mm jacketed (12 Fibers) 3.0 mm jacketed (24 Fibers)
Ferrule Material	Polymer
Dust Protection Method	Removable dust plugs that encapsulate the ferrules

Optical Data

	Singlemode	Multimode
	APC	MM (APC)
	SM Super Low Loss	MM Super Low Loss
Typical Insertion Loss (dB)*	0.15	0.15
Max. Insertion Loss (dB)*	0.35	0.35
Typical Return Loss (dB)*	≥60	≥45
Ferrule Diameter (µm)	SN-MT ferrule 12-fiber, 250 µm in a single row SN-MT ferrule 24-fiber, 250 µm in dual rows	

* Specifications provided are target only based on master grade jumper to low loss random mating test

Environmental Data

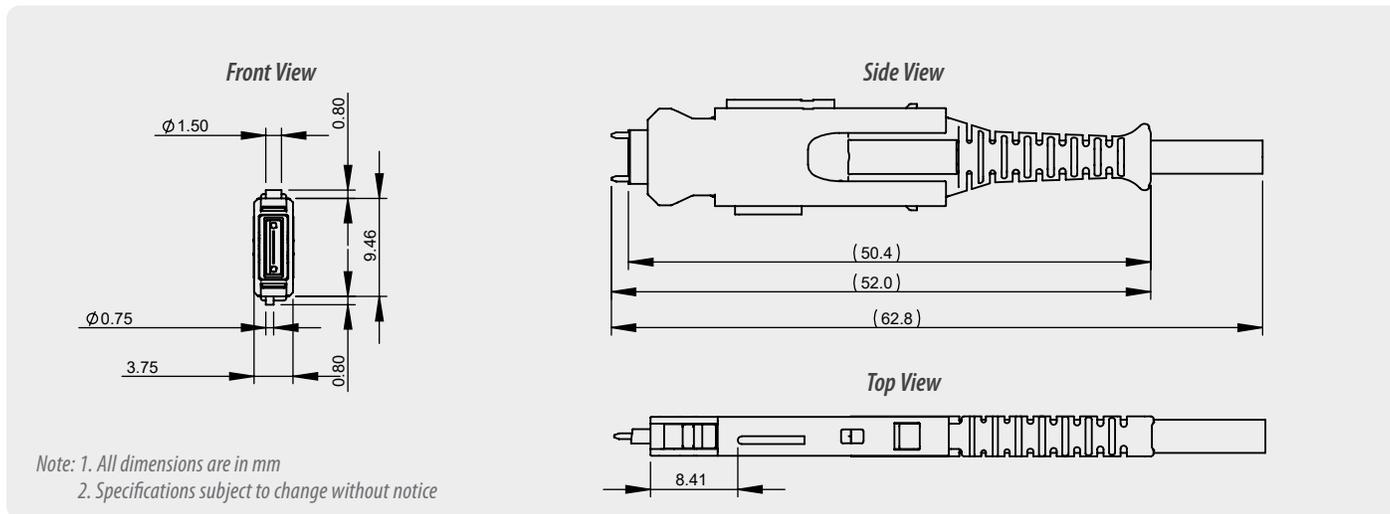
	Value
Operating Temperature	-40°C to +75°C
RoHS Compliance	2015/863 RoHS
REACH Compliance	Yes
Free of Halogen	Yes
Humidity Resistance	95%

SN-MT CONNECTOR

12-fiber single row, 24-fiber dual row, 250µm

SN-MT CONNECTOR DATA SHEET

SN-MT Standard Drawing



ORDERING



CONNECTOR TYPE	GUIDE PIN GENDER	PERFORMANCE	FIBER COUNT	HOUSING COLOR	BOOT TYPE	BOOT COLOR
641 SN-MT Connector with Ferrule	F Female (Without Pin)	SL SM Super Low Loss	12 12 Fiber (250 µm)	G SM Green	1 Bare Ribbon Fiber Boot	3 Black
	M Male (With Pin)				4 50mm Boot (50T), 2 mm	



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642 SN-MT Connector with Ferrule	F Female (Without Pin)	SL SM Super Low Loss	12 12 Fiber (250 µm)	G SM Green	2 44mm Boot (44T), 2.6 mm	3 Black
	M Male (With Pin)		24 24 Fiber (250 µm)		3 44mm Boot (44T), 3.0 mm	



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641 SN-MT Connector with Ferrule	F Female (Without Pin)	ML MM Low Loss	12 12 Fiber (250 µm)	B MM Black	1 Bare Ribbon Fiber Boot	3 Black
	M Male (With Pin)				4 50 mm Boot (50T), 2 mm	

Note: 1. Connector supplied with protective dust cap
 2. 24 Fiber version in development



Contact sales@senko.com for availability and to learn more

SENKO[®]

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