

SN-MT STANDARD CONNECTOR

**16-Fiber, 200 μ m
Single Row
2.0 mm Cable**



SUNCONE SN-MT16 High-Density Connector

As an advanced member of SUNCONE's SN fiber platform, the SN-MT16 integrates 16 fibers of 200 μ m in a single-row ferrule design, achieving over 2.5 times the density of conventional MPO16 interfaces. It delivers reliable low-loss performance for both single-mode and multimode APC systems, supporting the space efficiency required in hyperscale data centers.

Scalable and Deployment-Ready

The connector enables high-density patching of over 3,000 fibers per rack unit and is compatible with slim 200 μ m rollable ribbon cables to minimize pathway congestion. Designed for grouped installation, it allows simultaneous connection of up to four units via a quad adapter, effectively creating a 64-fiber trunk solution ideal for scalable backbone and data center applications.

Features

- Allows up to 3,456 fibers per 1RU.
- 2.7 x denser than MPO16 per 1RU.
- Max. insertion loss 0.35 dB.
- Up to 4 x SN-MT connectors per transceiver.
- Compatible with 200 μ m rollable ribbon cables.
- Optimized for 800G data rates with QSFP-DD, OSFP and SFP-DD transceivers.
- Wide range of connector and adapter types for legacy upgrades or greenfield applications.
- Low-loss, compact SN-MT ferrule.
- 1.3 x denser than MPO32 per 1RU.
- Push-pull boot for fast and simple MACs.

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-generation data rates

Optical Data

	Singlemode	Multimode
	UPC	MM (APC)
	SM Premium Low Loss	Premium
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 16-fiber, 200 μm in a single row	

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

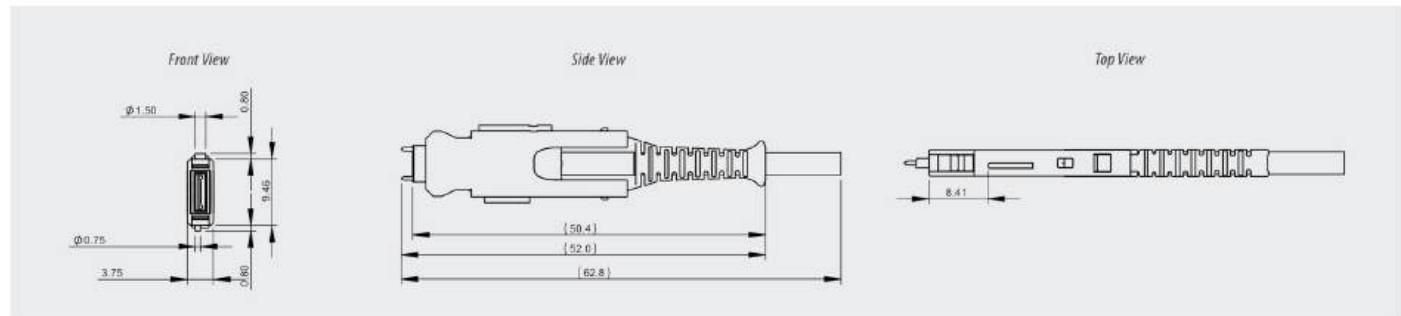
Mechanical Data

	Value
Durability	500 matings per GR-1435-Core
Fiber Count	Multi-fiber (16 fiber)
Cable Suitability	2.0mm jacked
Ferrule Material	Polymer
Dust Protection Method	Removable dust plugs that encapsulate the ferrules

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%

Connector Drawing



Note: 1. All dimensions are in mm.

2. Specifications subject to change without notice.