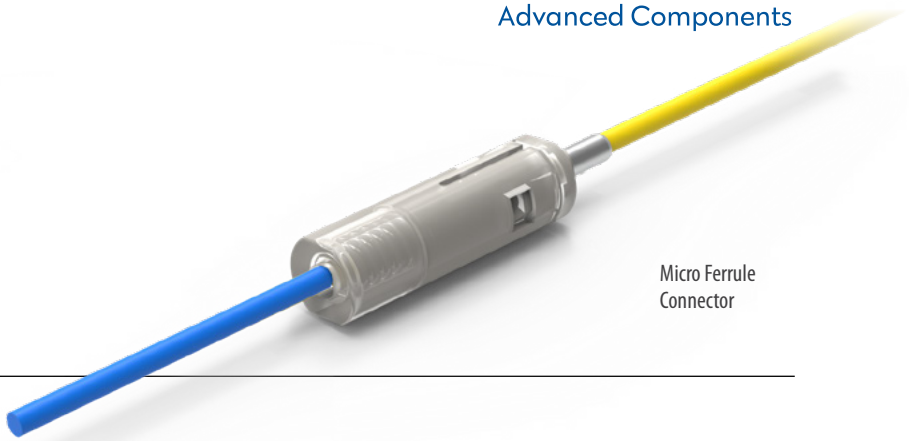
DATA SHEET

SENKO®
Advanced Components

Micro FERRULE CONNECTOR



Micro Ferrule Connector

SENKO's Micro Ferrule connector boasts a 1.25 mm ferrule, redefining compactness while delivering exceptional performance. Purpose-built for space-constrained environments to ensure efficient utilization of available space. It seamlessly integrates into existing infrastructure by mounting on splice trays, you significantly reduced on field operation time and cost, streamline fiber management, reduce clutter, and enhance overall organization. The secure bayonet latching mechanism ensures reliability, preventing accidental disconnections. High precision ferrules and sleeves guarantee exact alignment, crucial for signal integrity in single-mode (SM), multimode (MM) and polarization-maintaining (PM) fibers.

Whether optimizing data centers or embracing on-board optics inside equipment and pluggable optics transceivers, consider this connector as your trusted ally, combining innovation, reliability, and precision.

FEATURES

- Space saving design
- Splice tray mountable
- Secure latching
- High precision ferrules and sleeve
- Compatible with both UPC and APC polishes
- PM version available
- Ferrule available to accommodate 125 µm and 80 µm fiber
- Scalable for high volume production

APPLICATIONS

- Data center
- On board optics
- Pluggable transceiver

KEY BENEFITS

- **Small footprint**
- **Precise alignment for 1.25 mm OD ceramic ferrule**
- **For both SM and PM fiber**
- **On field operation time and cost saving compared to splicing**

Mechanical Data

	Value
Durability	500 matings per GR-326/TIA-568
Fixing Method	Splicing tray or customized mount clip to PCB board
Housing Material Type	Plastic
Ferrule Material	Zirconia
Cable Suitable	900 μm buffered fiber

Optical Data

	Singlemode		Multimode
	UPC	APC	UPC
	SM Premium	SM Premium	MM Premium
Typical Insertion Loss (dB)*	0.08	0.12	0.10
Max. Insertion Loss (dB)*	0.20	0.25	0.20
Typical Return Loss (dB)*	≥55	≥65	≥25

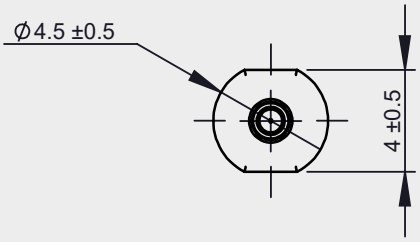
** Based on master grade jumper mating test, per ferrule/endface.*

Environmental Data

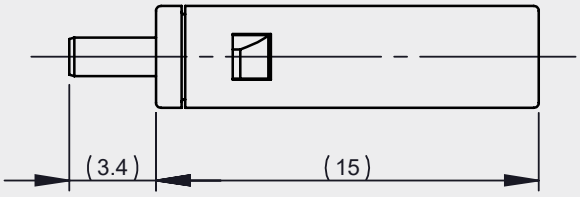
	Value
Operating Temperature	-40°C to +75°C
RoHS Compliance	2015/863 RoHS
REACH Compliance	Yes
Humidity Resistance	95%

Connector Drawing

Front View



Side View



Note: 1. All dimensions are in mm
2. Specifications subject to change without notice

ORDERING

Micro Ferrule Connector

CODE		FERRULE TYPE I.D.		HOUSING COLOR		TYPE	
9K1	Micro Ferrule Connector	151	SM Premium	T	Transparent	1	Standard
		081	80 µm Standard				
		251	MM Premium				

9K1 - 151 - T1 ORDER CODE example

Note: Only the Micro Ferrule Connector assembly is currently available, part number is for reference when choosing the connector.

SENKO®
Advanced Components

sales@senko.com
1-858-623-3300

senko.com/contact

DS-OBI-000007-RevA-EN