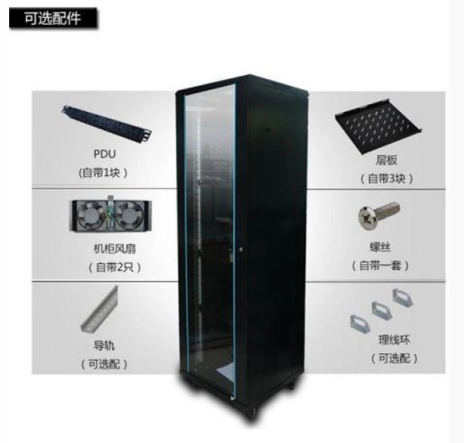


Customization Process for New SN Connectors for Data Centers



AI Overview

The SN® connector is a high-density, duplex fiber optic connector designed for data centers, offering compactness, low insertion loss, and high return loss, with customization focusing on ferrule preparation, testing, and integration into existing infrastructure.

Overview of SN Connectors

The SN® connector is engineered for high-density and high-performance networking environments, particularly in data centers and telecom systems. Unlike standard LC duplex connectors, the SN connector incorporates two fibers in a single assembly, effectively doubling fiber density in the same physical space. This design allows for low insertion loss (typically below 0.35 dB) and high return loss (>55 dB), ensuring reliable and fast data transmission even in space-constrained environments ().

Customization Process

1. **Design and Material Selection**

Customization begins with selecting industry-standard materials capable of extended service life. The SN connector uses Zirconia ferrules with a 1.25 mm outer diameter, polished and prepared individually to ensure precise alignment and minimal signal loss (). The connector housing is designed to maintain modularity, cleanliness, and mechanical stability, which is critical for high-density deployments ().

2. **Ferrule Preparation and Polishing**

Each fiber ferrule is individually prepared, polished, and tested. This step ensures that the optical surfaces are free from defects and contamination, which could otherwise increase insertion loss or reduce return loss. Standard polishing and visual inspection techniques are applied, leveraging existing industry processes to maintain quality and reliability ().

3. **Testing and Standards Compliance**

Customized SN connectors undergo rigorous testing to meet industry standards, including:

- GR-326: Generic requirements for single-mode optical connectors and jumper assemblies
- IEC 61300-3-34: Attenuation of randomly mated...

Article Content

AFL & SENKO Enter into a License Agreement for the

Robert Dennelly, Director of Engineering & Product Management at AFL says, "We are excited about our Licensing Agreement with SENKO on the

Understanding the SN® Connector: Fiber Optic Solutions for

In today's telecommunications world, the need for more data transmission speed has necessitated better connection capabilities. Among these is a new connector known as SN®

The 2026 Fiber Optic Pigtail Guide: SN/CS/MDC, Bend

Discover the 2026 Fiber Optic Pigtail Guide—covering SN/CS/MDC VSFF connectors, bend-insensitive OS2 G.657.A2, OM5 ribbon pigtails and AI

High-density connectivity packs fiber into data centers

These transceivers require equally dense fiber connectivity. Recent technology developments have shrunk the amount of real estate occupied by dual-fiber

VSFF Connectors vs LC: Will SN and CS Replace LC?

Explore whether SN and CS VSFF connectors can replace LC in next-gen data centers. Learn differences, benefits, density gains, and upgrade strategies.

Guide to Data Center Connectors, Standards & Best

Learn how to select quality data center connectors. Compare different types, applications, and features to determine which solutions are best suited to

What you should know about VSFF connectors

Fiber density is exploding as data centers pack in more servers, switches, and storage to handle massive data and emerging high-performance

Smarter Data Center Scaling with High-Density

High-density connector products offer substantial opportunities to accelerate deployment timelines and reduce overall costs within hyperscale data center

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Compare the 10 best online scheduling software for doctors in 2025. Look at pricing, features, & real customer reviews.

Data Center Cabling Infrastructure: Complete Guide for

Check out this comprehensive guide for data center cabling to enhance your network infrastructure. Learn about effective strategies and tips for

OEM in Data Centers: Unlocking Reliability and

Discover how OEM solutions enhance data center reliability, customization, and efficiency. Learn the benefits, challenges, and future trends of

SN connectors: a novelty for the Data Center market!

In recent days we informed about a new product in our partner's portfolio – Huber+Suhner company – SN connectors. This information is especially important for Data Center

Data Center Connectivity Supplier | MDC/SN

MDC & SN Connectors Overview MDC & SN connectors are new Mini Duplex Connectors designed for Data Center 400G optimization. Simplicity of design

SN CS MDC VSFF Connector Engineering Explained

Engineering explanation of SN, CS, and MDC VSFF connectors, focusing on mechanical architecture, handling behavior, and deployment boundaries.

CS® and SN® Connector

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

SN Connector Assembly

SN Connectors enable high-density duplex fiber connections for next-gen networks, requiring specialized fixturing/tooling for precise assembly. Learn more.

SN® STANDARD CONNECTOR

Discover the SENKO SN® Standard Connector—a compact, high-density fiber optic connector designed for modern data centers. Features include a push-pull boot

SN-MT Connector Assembly

Explore our fixturing and tooling solutions for SN-MT connector (VSFF) assembly, for efficient termination and assembly in hyperscale data centers.

New High-Density Duplex Connectors

Learn about new CS, SN and MDC high-density duplex fiber connectors and the benefits they deliver for high-speed data center deployments.

CS® and SN® Connect

hyperscale data center. These new connectors are called the CS® and the SN® connectors. Both connectors are leveraged from the parent duplex LC connector with 1.25mm O.D. Zirconia ferrules.

High-Density Fiber Connectors for Hyperscale AI Data

Introduction Hyperscale data centers and AI computing clusters are pushing network infrastructure to new extremes of speed and scale. To meet

Unlocking the Potential of MTP Fiber Connectors in

Find out why MTP® fiber connectors outperform MPO connectors in data centers. Learn about the benefits, FAQs, and maintenance tips for MTP®

L-com Releases SN and CS Fiber Optic Adapters and Connectors

Applications for the new SN adapters include upgrading fiber management hardware from SC/LC to SN, improving rack-space utilization in Brownfield data centers, making high-density

SENKO's SN and SN-MT Connector Assembly: Revolutionizing Trunk

SENKO's SN and SN-MT Connector Assembly: Revolutionizing Trunk Cable Deployment in Data Centers Data centers are the backbone of modern digital infrastructure, driving the ever-growing

What you should know about VSFF connectors

New very small form factor (VSFF) connectors are emerging as potential game-changers to maximize space in these high-density environments.

SN Series » SENKO Advanced Components, Inc.

Hyperscale data centers receive significant benefits when connecting Spine Switches to Leaf Switches in a full-mesh topology. Up to four SN connectors can

How high-density fiber connectivity is shaping AI's future

Explore how high-density fiber connectivity enables AI-driven data centers to support massive bandwidth and scalable infrastructure.

MDC vs SN vs CS Connector – DXConnectivity for

Compare MDC, SN, and CS VSFF connectors for 800G networks — discover which delivers the best density, reliability, and ROI for AI and cloud data

Contact Us

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