

Quantum Communication E2000 Connector Intelligent Type

Article Overview

The E-2000® connector is a high-precision fiber-optic connector with ultra-low insertion loss, spring-loaded shutters, and advanced alignment technology, ideal for critical quantum communication applications.

Key Features

Active Core Alignment (ACA) Technology: The E-2000® connector uses Diamond's patented ACA system, which ensures the fiber core is perfectly centered, achieving ultra-low insertion loss (typically ≤ 0.1 dB) and high return loss, critical for quantum communication where signal integrity is paramount . **Spring-Loaded Shutters:** The connector includes spring-loaded metal shutters that protect the ferrule end-face from dust and scratches while preventing exposure to potentially eye-damaging laser radiation . This feature is essential for maintaining optical performance in sensitive quantum systems. **Push-Pull Locking Mechanism:** The connector employs a secure push-pull latch system with color-coded frames for easy identification and error-free connections, supporting both simplex and duplex configurations . **Optical Interface Variants:** E-2000® connectors support a wide range of optical interfaces, including standard singlemode, multimode, polarization-maintaining (PM), VIS/NIR, and expanded-beam solutions. APC versions feature an 8° oblique polished ferrule for low back reflection, which is particularly important in quantum communication networks . **Environmental and Sterilization Options:** The connector can be sterilized using EtO and offers optional IP65 O-ring sealing for rugged and hygienic environments, ensuring reliability under harsh conditions

Article Content

Sep 15, 2025

Why E2000 Fiber Optic Patch Cords Are the Top Choice for Engineers

3.Key Advantages of E2000 Fiber Optic Patch Cords 1. Superior Connector Design
Push-Pull Mechanism: The E2000 connector

May 28, 2026

CTEC Fibre Optics

E2000 PS High Power Connector Overview Greater network traffic demands, coupled with innovative technologies designed to

Apr 04, 2026

E-2000® Connector | High-Performance Fiber Optics

The E-2000® connector, invented by DIAMOND, delivers unmatched reliability and precision in fiber-optic

Jun 21, 2026

E-2000® Connector | PC & HRL/APC

The E-2000 is an optical fibre plug connector with push-pull locking mechanism and a self-closing dust protection flap. The connector

Jul 13, 2026

E2000 Connector Kit Single Mode APC 2.0mm Cable

E2000 Connector is a fiber optic patch cable assembly with E2000 connectors UPC to APC. The cable diameter is 2mm

Aug 29, 2025

DIAMOND E-2000 Fiber Optic Components

mechanical and optical interfaces, the E-2000™ fiber optic connector family can cover the most standard and customized

Aug 25, 2025

E2000 Connector – Norden Communication

Each E2000 connector and adaptor has its own shutter that automatically opens and closes as the connector slides into its adaptor.

Nov 19, 2025

E2000 Fiber Optic Connector : sFiberOptic

E2000 Fiber Optic Connectors Type The E-2000 Connector Series is one of the few fiber optic connectors featuring a spring-loaded

Jun 22, 2026

E-2000 CONNECTOR

The SENKO E-2000™ Connector is a high-performance robust design. It offers a spring-loaded shutter mechanism that protects the

Aug 05, 2025

E-2000 PS Diamond connectors and adapters

a section of graded index fibre is introduced as a collimating lens, which enlarges the beam diameter and

Jan 28, 2026

E2000 Connector

E2000 Connector DESCRIPTION Optical fiber connector is a detachable (movable) connection device between fiber and fiber. It

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E2000 Connector

The E2000/LX-5 connector is a small form factor designed for single-mode and multimode fiber optic cables. It is a type of LC

Mar 06, 2026

2. 36-ME21

High quality Zirconia PC ferrule. 900 micron, 2mm, 3mm cable applications. Telcordia-style strain and relief boot. Compliant with IEC

Nov 19, 2025

E2000 type fiber optic connector-company-APT

E2000 type fiber optic connector The E2000 single/multimode fiber optic patch cord is a device for detachable active connections

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E2000 Connector Manufacturer & Supplier in India

Find E2000 Connector in India. Buy E2000 Connector at the best price from Norden Communication, one of the leading

May 10, 2026

E-2000 CONNECTOR

Lever Connector Compact Duplex Two E-2000 connectors can be joined together to make a duplex connector by using the

Aug 01, 2025

E2000 Patch Cords Features Applications

Features E2000 connectors with metal shutter Available as hybrid patch cords with FC, LC, SC or ST connectors Available in

Nov 30, 2025

E2000 Fiber Connector: Where and Why It's Used

The E2000 fiber connector explained. Spring-loaded shutter mechanism, eye-safety design, push-pull engagement, applications in

Jun 17, 2026

FIBRE ADAPTOR_E2000 FIBRE OPTIC ADAPTOR

FIBRE ADAPTOR SPECIFICATION Norden's fibre adaptors are available for all standard connector types in both single mode and

May 30, 2026

Explore the Comprehensive E2000 Connector

These facets collectively contribute to the versatility and adaptability of E2000 connectors, rendering them

Apr 22, 2026

DIAMOND E-2000 Fiber Optic Components

E-2000TM fiber optic connector family can cover the most standard and cus-tomized requirements in response to the increasingly

Jan 11, 2026

E-2000® Connector

Now more than ever the low optical loss provided by Diamond's Accurate Core Alignment

Jul 21, 2026

E-2000® connector | optical fiber plug connector

The E-2000 is an optical fiber plug connector with push-pull locking mechanism and a self-closing dust protection flap. The connector

Aug 08, 2025

Fiber Optic Connector | Fiber Connector | E2000

Fiber optic connector is an important components used in the fiber optic network. It is also the key part

Mar 10, 2026

E-2000® Steckverbinder | Hochleistungs

Der von DIAMOND erfundene E-2000®-Steckverbinder bietet unübertroffene Zuverlässigkeit und Präzision

Apr 13, 2026

E-2000® Connector

Automatic dust and protective cap / shutter for laser safety. Ceramic - Titanium ferrule. Plastic connector body.

Jan 03, 2026

E-2000 Connector

The E-2000™ Connector offers a spring-loaded shutter mechanism that protects the ferrule end-face from

Oct 20, 2025

E2000 Fiber Optic Connector Kit Kit Price and Specification

E2000 fiber optic connectors Kit are used in the communication filed because its good performance featuring a spring-loaded shutter

Contact Us

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