



General Description

The PDR Bare Fiber Adapter is a precision passive component designed to interface bare optical fibers directly with fiber optic test equipment, instruments, and network systems. One end securely clamps the stripped bare fiber using a reliable mechanical holding mechanism, while the other end presents a standard connector interface (SC, LC, FC, ST, or SMA) for seamless integration. The adapter enables fast, tool-free termination without the need for permanent splicing or connectorisation, making it ideal for temporary connections, in-field measurements, and laboratory testing. Constructed with a durable housing, the PDR Bare Fiber Adapter delivers consistent optical performance across single-mode and multimode fiber types.

Key Features

- Available in SC, LC, FC, ST, and SMA interface types to suit all common test equipment
- Secure mechanical clamping mechanism holds bare fiber firmly without adhesive or tools
- Compatible with both single-mode (OS1/OS2) and multimode (OM1–OM4) optical fibers
- Compact, lightweight body for easy handling in lab and field environments
- Simple plug-and-play operation — insert bare fiber on one side, connect to equipment on the other
- Enables fast temporary termination for fiber testing and measurement applications
- Suitable for emergency fiber restoration where permanent connectors are unavailable
- Durable housing withstands repeated insertion cycles for long service life
- Low insertion loss for accurate test and measurement results

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

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Technical Specifications

Parameter	Specification
Adapter Types	SC, LC, FC, ST, SMA
Compatible Fiber	Single-mode (OS1/OS2) Multimode (OM1, OM2, OM3, OM4)
Fiber Cladding Diameter	125 µm (standard)
Fiber Holding Mechanism	Mechanical clamp — no adhesive or tools required
Insertion Loss	SC/FC/ST: ≤ 0.5 dB LC: ≤ 0.5 dB SMA: ≤ 1.0 dB (typical)
Return Loss	SC/FC/ST: ≥ 20 dB LC: ≥ 20 dB SMA: ≥ 14 dB
Mating Durability	≥ 500 mating cycles
Housing Material	Zinc alloy body with precision ceramic / stainless insert
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5% – 95% RH (non-condensing)
Bare Fiber Insertion	Simple straight insertion — no stripping jig required
Applications	Lab testing, field measurement, emergency restoration, PON/OTDR use
Compliance	RoHS compliant

* Insertion loss and return loss values are typical; actual values may vary with fiber cleave quality and alignment. Measured per IEC 61300-3-4.

Applications

- Fiber-to-the-Home (FTTH) and Fiber-to-the-Building (FTTB) network testing and commissioning
- Telecommunications network measurement, fault location, and maintenance
- OTDR and optical power meter connections during cable installation and characterisation
- Data centre and enterprise LAN fiber testing and troubleshooting
- Laboratory R&D; environments requiring repeated temporary fiber connections
- Emergency field restoration of fiber optic links pending permanent connectorisation

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Ordering Information

Part Numbers

Part Number	Description	Connector Type	Fiber Compatibility
PDR-BFA-SC	Bare Fiber Adapter	SC (UPC)	SM / MM
PDR-BFA-SC-APC	Bare Fiber Adapter	SC (APC)	SM / MM
PDR-BFA-LC	Bare Fiber Adapter	LC (UPC)	SM / MM
PDR-BFA-LC-APC	Bare Fiber Adapter	LC (APC)	SM / MM
PDR-BFA-FC	Bare Fiber Adapter	FC (UPC)	SM / MM
PDR-BFA-FC-APC	Bare Fiber Adapter	FC (APC)	SM / MM
PDR-BFA-ST	Bare Fiber Adapter	ST	SM / MM
PDR-BFA-SMA	Bare Fiber Adapter	SMA 905	MM

Standard Package Contents

Item	Quantity
Bare Fiber Adapter (specify type: SC / LC / FC / ST / SMA)	1
Protective Dust Cap (connector side)	1
Protective Plug (bare fiber entry side)	1
User Guide	1

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