

# FCD-10B

NETWORK TESTING—OPTICAL

- Send and receive information through fiber coating
- Compatible with 1310 and 1550 nm talk sets
- < 6 dB insertion loss
- -14 dB to -22 dB coupling efficiency



The FCD-10B Clip-On Coupling Device is the perfect accessory for the VCS-20A Fiber-Optic Talk Set. The FCD-10B enables full-duplex voice communication anywhere on a network. Simply clip onto the singlemode fiber (250  $\mu\text{m}$ ) for instant communication, without accessing the fiber end.

EXFO's FCD-10B uses an improved, high-performance optical grating. It takes advantage of the low-amplitude microbending technique to ensure a safe, non-damaging clipping action. This guarantees efficient, worry-free signal injection and extraction. Furthermore, the low-amplitude microbending technique is the only one that allows consistent insertion loss and coupling ratios at both 1310 and 1550 nm.

The FCD-10B Clip-On Coupling Device also features substantial mechanical and ergonomic upgrades:

- Smooth damping mechanism ensures a stable force is applied, effectively protecting the fiber against damage
- New ergonomics allow easy use on flat surface or in user's hands
- Wide, accessible opening for easy cleaning
- Extended V-groove simplifies fiber placement

### SPECIFICATIONS

|                     |  |
|---------------------|--|
| Wavelength range    | 1310 nm and 1550 nm  |
| Coupling efficiency | -14 dB to -22 dB   |
| Insertion loss      | < 6 dB (1310 nm and 1550 nm)   |
| Backreflection      | < -60 dB on tapped fiber   |
| Fiber type          | Singlemode, 250 µm coated fiber  |
| Coating type        | Acrylate, high refractive index  |
| Coating color       | Performance is color-dependent; colors do not equally attenuate signals, clear-coated fibers provide best performance. |

### GENERAL SPECIFICATIONS <sup>a</sup>

|                  |   |
|------------------|---|
| Size (W x H x D) | 11 cm x 5 cm x 5 cm (4 1/4 in x 2 in x 2 in)  |
| Temperature      | operating 5 °C to 40 °C (41 °F to 104 °F)<br>storage -30 °C to 60 °C (-22 °F to 140 °F) |

**Note**

a. For Corning SMF-28, clear-coated 250 mm fiber

### ORDERING INFORMATION

#### FCD-10B-XX

■ Connector code

- 58 = FC/APC
- 88 = SC/APC
- 89 = FC/UPC
- 90 = ST/UPC
- 91 = SC/UPC

**Rugged Handheld Solutions**

- OPTICAL**
  - OTDRs
  - OLTSs
  - Power meters
  - Light sources
  - Talk sets
- COPPER ACCESS**
  - ADSL/ADSL2+, SHDSL, VDSL test sets
  - VoIP and IPTV test sets
  - Ethernet test sets
  - POTS test sets

**Platform-Based Solutions**

- OPTICAL FIBER**
  - OTDRs
  - OLTSs
  - ORL meters
  - Variable attenuators
- DWDM TEST SYSTEMS**
  - OSAs
  - PMD analyzers
  - Chromatic dispersion analyzer
- TRANSPORT AND DATACOM**
  - Next-generation SONET/SDH and OTN testers
  - SONET/DSn (DS0 to OC-192) testers
  - SDH/PDH (64 kbit/s to STM-64) testers
  - T1/T3, E1 testers
  - 10/100 Mbit/s and Gigabit Ethernet testers
  - Fibre Channel testers
  - 10 Gigabit Ethernet testers

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit [www.EXFO.com/recycle](http://www.EXFO.com/recycle). Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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In case of discrepancy, the Web version takes precedence over any printed literature.