



MiniBend® Fiber Optic Component For Downhole Double-ended Systems and Optical Connectivity

The MiniBend miniature fiber optic component employs a revolutionary technology that will change the way you plan and engineer the fiber management in your oil or gas well. This patented technology allows for a single strand of multimode or single-mode fiber to be formed at a 180° bend with a 1 mm fiber bend diameter, saving valuable real estate.

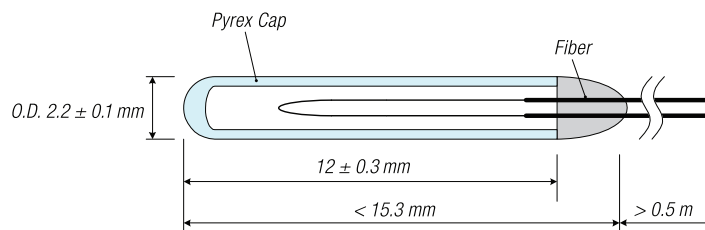
Features

- Elegant, low profile solution for achieving downhole fiber optic double-ended system
- Provides low-loss sub-millimeter bends for miniaturizing fiber components and circuits
- No stress with the small bend radii
- Bi-directional
- Mechanically and environmentally robust
- Small and protective package

Applications

- Downhole fiber optic turnaround
- Fiber management systems
- Modulators, splitters, circulators, connectors and polarizers
- Circuit boards and back planes
- Compact test instrumentation and sensors

Dimensions



Specifications

PARAMETER	VALUE			
Item Number	DNS-1574	DNS-1575	DNS-1885	DNS-1890
Fiber Coating Type	50 μm multimode carbon mid-temperature acrylate	50 μm multimode carbon/polyimide	single-mode carbon mid-temperature acrylate	single-mode carbon/polyimide
Operation Wavelength Range	900 to 1340 nm, 1430 to 1600 nm		1280 to 1340 nm, 1430 to 1600 nm	
Insertion Loss	< 0.2 dB at 1310 nm of wavelength at room temperature		< 0.3 dB at 1550 nm of wavelength at room temperature	
Operating Temperature	0 to 150°C	0 to 200°C	0 to 150°C	0 to 200°C
Storage Temperature	-60 to 85°C			
Body Size	Outside Diameter = 2.2 mm +/-0.1, Length = 15 mm +/-0.3			
Fiber Tail Length	> 0.5 m			
Straight Pull	500 g			