



## MiniBend™ 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 fiber to be formed at a 180° bend with a 1mm 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

### Specifications

PARAMETER	TYPE 1	TYPE 2
Item Number	DNS-1574	DNS-1575
Fiber	50µm carbon mid-temperature acrylate	50µm carbon/polyimide
Operating Temperature	0 to 150°C	0 to 200°C
Storage Temperature	-60 to 85°C	
Operation Wavelength Range	900 to 1340nm, 1430 to 1600nm	
Insertion Loss	< 0.2dB at 1310nm of wavelength at room temperature	
Body Size	Outside Diameter = 2.2mm +/-0.1, Length = 15mm +/-0.3	
Fiber Tail Length	> 0.5m	
Straight Pull	500g	

### Dimensions

