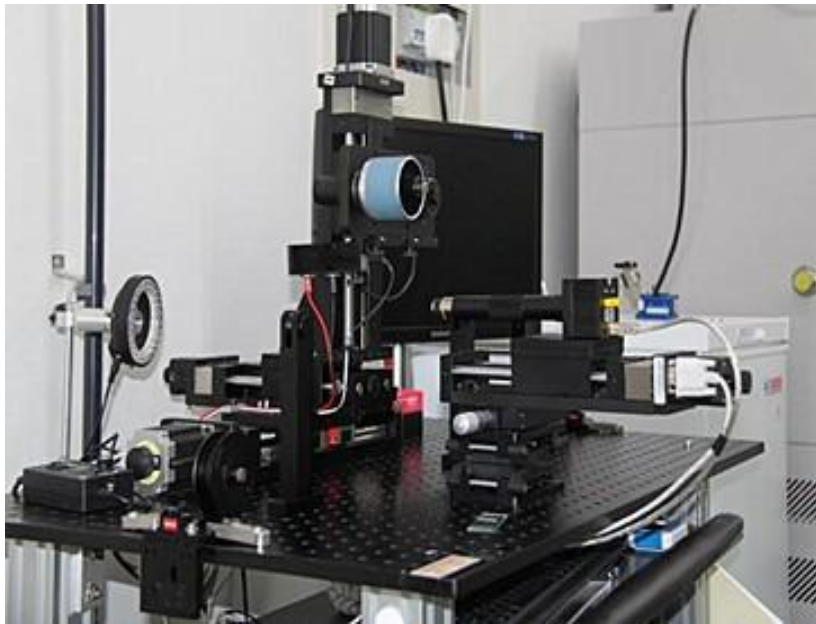


D-Type Fiber Customization



- **Product Description**

The side-polished fiber/D-type fiber (Side Polished Fiber) leverages our comprehensive fiber processing technology. Xiaoxiao Photonics currently offers customized processing services for D-shaped side-polished fibers. With 5 years of unique side-polishing expertise, we can precisely provide large-scale customized services to our clients. Customers only need to specify the fiber type, polishing length, and polishing depth they require.



● Product features

High optical surface quality 、 Low insertion loss in air 、 Supports customization for various compatible fibers 、 Different side-polishing depths 、 Exposed core length

● Part Number

MP-DTF-xxxx-17-5-1-9-SA

● Application area

Side-polished fiber creates a substrate with definable length and depth through a parallel surface 、 Facilitates access to the evanescent field with nearly zero loss 、 Guides waveguide properties through the structure and refractive index of the overlay structure 、 Achieves time-varying manipulation of propagation by dynamically modifying structure dimensions, refractive index, or absorption 、 Fiber optic components and fiber sensing applications

● Core parameters

Operating Wavelength	Insertion Loss	Side-Polishing Length
Customized	<0.1dB	17m

● General Parameters

Parameters

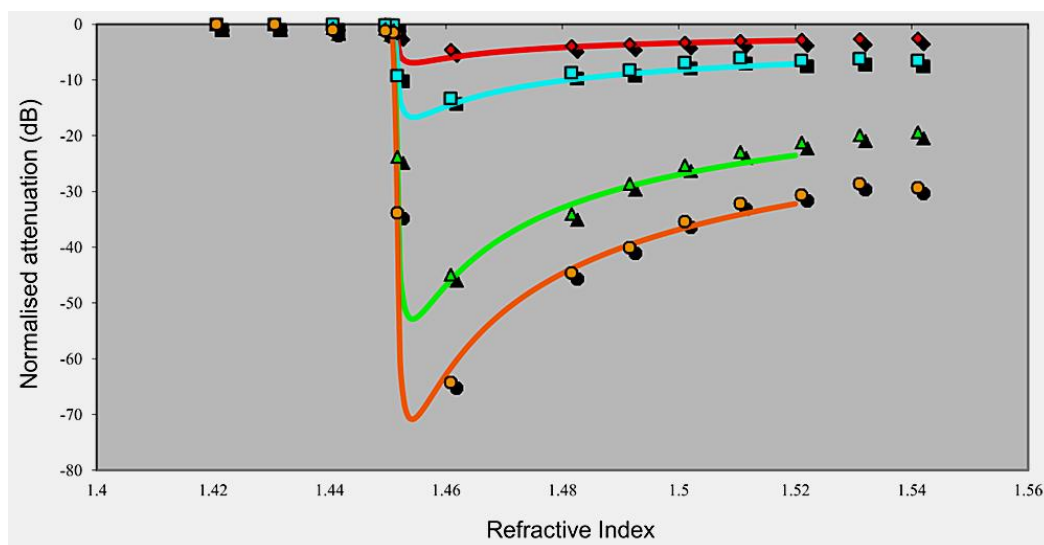
Parameters	Unit	Value
Operating Wavelength	nm	430-2000nm
Insertion Loss in Air	dB	<0.1dB
Attenuation Value at 1.5 Refractive Index	dB	>45 (Typ. 60)
Side-Polishing Length	m	17
Fiber Type		SMF-28E
Connector Type		FC/APC OR FC/PC

Notes:

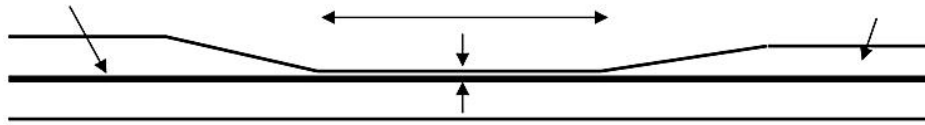
All test results exclude connectors.

Better parameters or other requirements can be customized upon request.

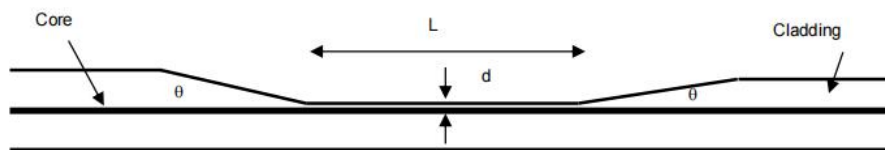
Attenuation Response with Different Polishing Depths and Overlay Refractive Index - Theoretical Curve and Data Points



Product Structure



Schematic diagram of side throwing optical fiber



Ordering info

MP-DTF- W□□□□-☆- △-XX

W□□□□: Wavelength

0405:405nm

0488:488nm

0532:532nm

0633:633nm

0650:650nm ☆ :

Pigtail Length

05:0.5m

1 : 1m



10: 10m

△: Loose Tube

B: Bare Fiber

9: 900um Loose Tube

20: 2mm Loose Tube

30: 2mm Loose Tube

XX: Fiber and Connector Type

SA=SMF-28E+ FC/ APC

SP=SMF-28E+ FC/ PC

PA=PMFiber+ FC/ APC

PP=PMFiber+ FC/ PC