

## Outdoor buried waterproof optical fiber connector

### Product Description

Outdoor buried waterproof optical fiber connectors can be made of stainless steel, and use two O-ring seals and vulcanization processes to ensure watertight properties, meeting the needs of general outdoor buried optical fiber movable connector scenarios, and can be used as watertight connectors in land lakes ; Conventional model connectors can meet 2-core and 4-core optical fiber transmission requirements, and the service life is designed to be more than 10 years. Customized development and design can also be carried out according to the usage requirements to meet the requirements of more transmission channels and photoelectric composite communications.



2-core buried optical fiber connector plug and socket



2-core buried optical fiber connector plug and socket docking renderings



### Applications

- Fiber optic perimeter sensing and detection
- Mobile outdoor base station equipment
- Lake monitoring and underwater monitoring
- High-speed railway and highway signal control
- Coal mines, oil wells, natural gas, etc.
- Geological exploration communication

### Connector parameters

Insertion loss	single mode	$\leq 0.60\text{dB}$ _ _
	multimode	$\leq 0.50\text{dB}$ _ _
return loss	single mode	$\geq 50\text{dB}$
Mechanical behavior	plug	$\leq 500\text{N}$ (main cable)
	socket	$\leq 30\text{N}$ (branch optical cable)
Operating temperature		$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Lateral watertight type		$\geq 2\text{MPa}$

### Optical cable parameters

Optical cable diameter	5.0mm or 7.0mm
Sheath material	LSZ , TPU , PVC
length	2-2000m
Fiber type	9/125, 50/125, 62.5/125
Optical fiber coating	900um Tight fiber
tensile strength	Short term: 600N Regular term: 200N
Operating temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$

### Ordering Information

Fiberlink (Wuhan) Photoelectric Technology Co., Ltd.  
 T+4008-237-236 | M+86 17771772785 | E sales@fiberlink.com.cn  
 No.32, Daxueyuan Road, East Lake New Technology Development Zone, Wuhan, 430073 P.R China



## Component ordering information

Series model	BW	2 6	K 1	0 2	-	FC/ APC	-	S M	-	5	-	L
One end shell model	20--Socket 26--Plug											
Material	K1--Stainless steel 304 K2--Stainless steel 316 T1--titanium alloy											
Contact type	02-2 core optical fiber 04-4 core optical fiber											
other end type	20K102-2-core stainless steel 304 socket (refer to the shell model at one end)  26K102-2-core stainless steel 304 plug (refer to the shell model at one end)  FC/APC- FC type connector (APC\UPC optional)  SC/APC- SC type connector (APC\UPC optional)  LC/APC- LC type connector (APC\UPC optional)  XX-Other customization											
Fiber type	SM-single mode 9/125 MM-Multimode 62.5/125 M3-Multimode 50/125											
Optical cable diameter	5:5.0mm optical cable (usually TPU outer protection) 7:7.0mm optical cable (usually TPU outer sheath)											
Cable length	L10m--cable length 10m L20m--cable length 20m											



Order model example

(1) BW26K102-26K102 - S M - 5 - L10 m

Indicates: Both ends are BW26K102 plugs, the optical cable is 5.0 single-mode optical cable, and the length of the optical cable is 10m

( 2 ) BW26K102 - FC/APC - SM - 5 - L10m

Indicates: One end is a BW26K102 plug, the other end is an FC/APC 2-core branch connector, the optical cable is a 5.0 single-mode optical cable, and the optical cable length is 10m

Examples of common connection solutions

