

ODVA Outdoor Waterproof Fiber Optic Connector

Product Description

ODVA outdoor fiber optic connectors are waterproof and dustproof, suitable for use in harsh industrial environments, and comply with IP67 standards; the connector is designed with a sealed panel feed-through device, which is easy to fit into a sealed container; the components are all optically tested to ensure high quality; single mode and multi-mode components are available, which can be mated with any type of common optical fiber; the combination of push-pull splices and bayonet mechanical latches facilitates easy installation and disassembly. The combination of push-pull splices and bayonet mechanical latches facilitates installation and disassembly. The current internal embedded LC, SC, MPO, etc., can be customized according to customer's needs.



Features

- A combination of push-pull inserts and bayonet mechanical latches for easy installation and removal operations
- Designed with a sealed panel feed through for easy loading into sealed containers;
- Currently internally embeddable with LC, SC, MPO, etc. and can be customized to meet customer needs
- Waterproof and dustproof, suitable for use in harsh industrial environments and meets IP67 standards
- Offers singlemode and multimode components that can be matched with any type of common fiber

Applications

- Smartcom substation, pull far communication base station
- Mobile outdoor base station equipment
- Mobile studios, TV relay trucks
- High-speed railroad, highway signal control
- Coal mines, oil wells, natural gas, etc.
- Geological exploration communication
- Emergency rescue fiber optic communication



Pictures



2-core ODVA-LC Type



Single core ODVA-LC Type



24-core ODVA-MPO Type



ODVA waterproof socket plug

Connector Parameter

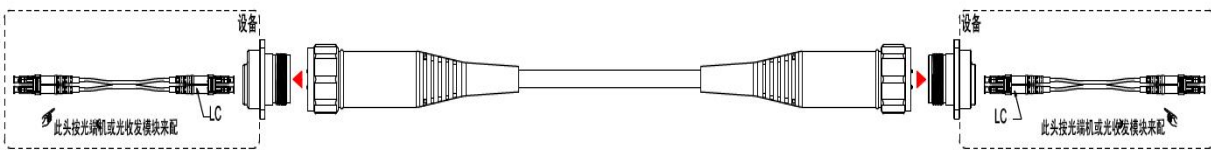
Insertion loss	SC、LC	$\leq 0.5\text{dB}$
	MPO	$\leq 0.75\text{dB}$
return loss	Single mode	$\geq 50\text{dB}$
Mechanical properties	Plug	$\leq 500\text{N}$ (Main cable)
	Socket	$\leq 30\text{N}$ (Branch cable)
Operating temperature		$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Protection level		IP67



Cable Parameter

Cable diameter	5.0mm
Sheath material	LSZH 、 TPU、 PVC
Length	2-2000m
Fiber type	9/125、 50/125、 62.5/125
fiber optic cladding	900um Tight Fiber
Tensile strength	Short-term: 600N Permanent: 200N
Operating temperature	-40°C ~ 85°C

Examples of common connection schemes



Model naming

Series Models	ODVA - SC P P - S M - 3.0K
Connector	LC--FC connector SC--SC connector MPO--MPO connector
Connection Type	P--Plug S-Sockets Z--Adapters (Subsequent naming defaults when it is an adapter)
Connection type at the other end	P--Plug S-Sockets
Fiber Type	SM--Single Mode SMF_28e 9/125 M--Multimode 62.5/125 MI--Multimode 50/125 MIV--Multimode 50/125 OM3 XX--Other custom fiber optics
Fiber optic cable type	3.0--Φ3.0Fiber Optic Cable 3.0K--Φ3.0 Armored Cable XX--Other custom fiber optic cables

