



J599/D38999 series Waterproof Optical connector

Product Overview

J599/D38999 outdoor waterproof optical fiber connector joints with three thread fast connection, and adapt with Five keys locate at the same time, blind insertion and error proofing in and anti vibration function, connector made of stainless steel 316L material, contact parts of high density, anti electromagnetic shielding function, fiber optic assemblies detachable, convenient installation, small connector loss, high reliability, is waterproof, dustproof, anti - corrosive characteristics. Mainly used for: marine equipment communications, airborne equipment, acid and alkali, hydrochloric acid, wet and other harsh environment, military communications and outdoor adverse environmental communications. J599III Series connector can provide 2-24C fiber connection, also available for 4fiber & 2 power Connection.

Products Pics & Ordering Info



J599/D38999-Plug (J59904P)



J599/D38999 Socket (J59904S)



J599/D38999-Plug (J59908P)



J599/D38999 Socket (J59908S)

Connector Parameter

Insertion Loss	SM	$\leq 1.0\text{dB}$ (Typical $\leq 0.5\text{dB}$)
	MM	$\leq 0.75\text{dB}$ (Typical $\leq 0.3\text{dB}$)
Return Loss	SM	$\geq 50\text{dB}$
Mechanical	Plug	$\leq 1000\text{N}$ (Main Cable)
	Socket	$\leq 100\text{N}$ (Branch Cable)
Fiber	SM/MM	2C-24C
Operation Temp.		$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
IP Rate		IP67



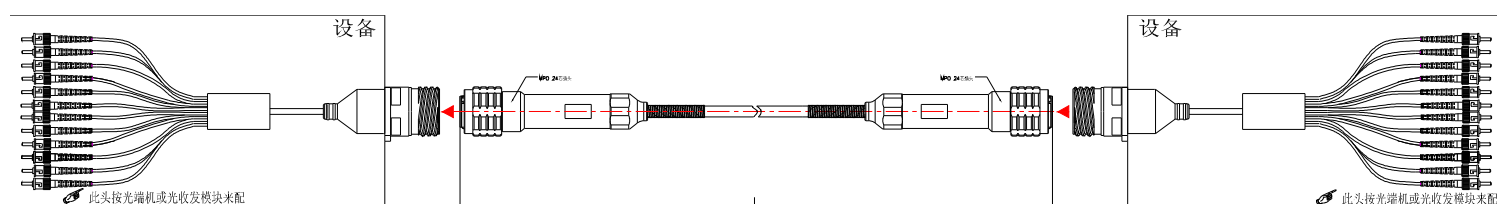
Cable Parameter

Cable OD.	4.0mm ; 7.0mm
Outer Sheath	TPU or LSZH
Anti-push Unit	KEVLAR
Fiber Type	9/125、50/125、62.5/125
Fiber Outer	9/125/250um fiber
Tensile Strength	Short term: 1200N/ Long term: 600N

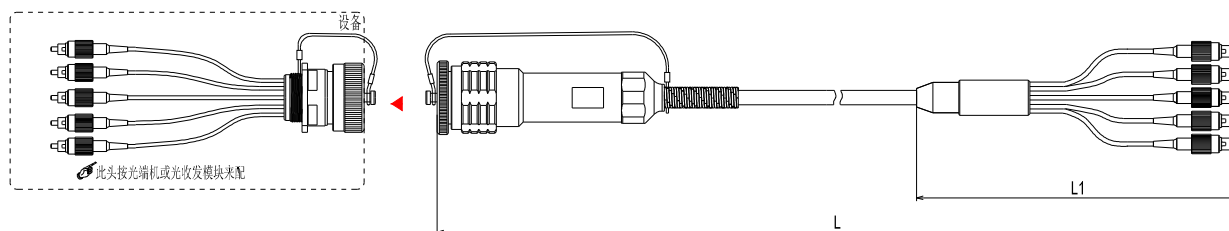
Branch Connector



Connection Drawing



Two equipment Link connection drawing Solution 01



Two equipment Link connection drawing Solution 02



J599/ D38999 A8 series Waterproof Optical connector

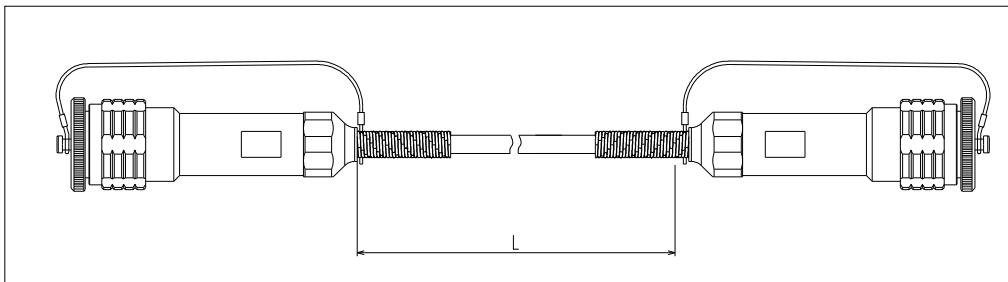
Features and Application:

- Industrial standard: Q/21EJ1305 connector size comply with GJB599A standard.
- (MIL-DTL-38999)III, performance meet with ARINC801 standard.
- Applied in aviation, electronics, ships and other systems for multiplexed optical communication
- outer casing can choose different materials and coatings to adapt to different environmental requirements
- five key location, there are blind mating and error proofing interpolation function
- three Screw thread quick connect, and with anti-release mechanism
- ceramic pin and sleeve contacts to achieve precision docking
- There are many variations of the optional rear
- With adapter socket (optional hermetic seal) form, get rid of the shackles of cable

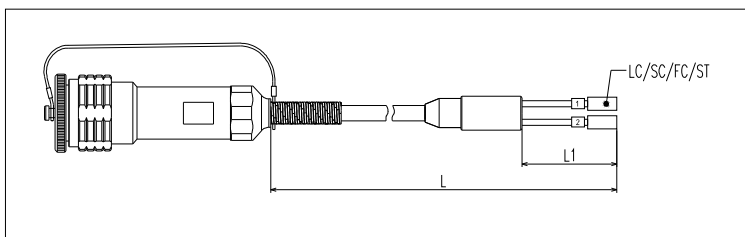


Connector Parameter

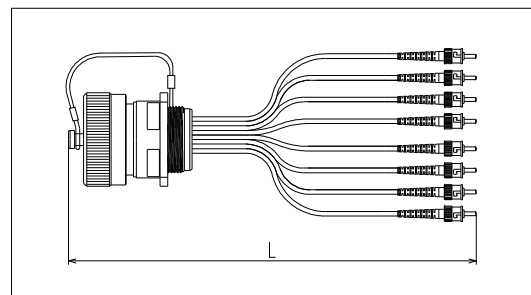
- Insertion loss: $\leq 0.6\text{dB}$
- Working temperature: $-55\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$
- Vibration: $10\text{Hz} \sim 2000\text{Hz}$, power spectral density $0.4\text{G}^2 / \text{Hz}$
- Shock: 2940 m/s^2 , duration of 3ms , the rate of change of velocity 2.96 m/s
- Mechanical life: 500 times
- tensile strength: $\geq 68\text{N}$ (2mm contacts jumper)
- Gas tightness (applies to airtight adapter socket): gas leakage $\leq 1 \times 10^{-9}\text{ Pa}\cdot\text{m}^3 / \text{S}$ and external pressure is 1 atm
- $\geq 1000\text{h}$ (stainless steel, aluminum, cadmium plated $\geq 48\text{h}$ (aluminum nickel-plated))



D38999 A8 Plug-Plug Drawing



D38999 A8 Plug-LC/SC/FC/ST Drawing



D38999 A8 socket-LC/SC/FC/ST Drawing



High Density J599/D38999 MPO/MTP Waterproof con

Product Overview

J599/D38999 MPO/MTP outdoor waterproof optical fiber connector with J599 shell and MPO/MTP optical fiber connector, joints with three thread fast connection, and adapt with Five keys locate at the same time, blind insertion and error proofing in and anti vibration function, connector made of stainless steel 316L material, contact parts of high density, anti electromagnetic shielding function, fiber optic assemblies detachable, convenient installation, small connector loss, high reliability, is waterproof, dustproof, anti - corrosive characteristics. Mainly used for: marine equipment communications, airborne equipment, acid and alkali, hydrochloric acid, wet and other harsh environment, military communications and outdoor adverse environmental communications.

J599III/D38999 Series connector can provide 2-24C fiber connection, also available for 4fiber & 2 power Connection.

Products Pics & Ordering Info



Connector Parameter

Insertion Loss	SM	$\leq 0.7\text{dB}$ (Typical $\leq 0.3\text{dB}$)
	MM	$\leq 0.6\text{dB}$ (Typical $\leq 0.2\text{dB}$)
Return Loss	SM	$\geq 50\text{dB}$
Mechanical	Plug	$\leq 500\text{N}$ (Main Cable)
	Socket	$\leq 30\text{N}$ (Branch Cable)
Fiber	SM/MM	16C or 24C
Operation Temp.		$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
IP Rate		IP68



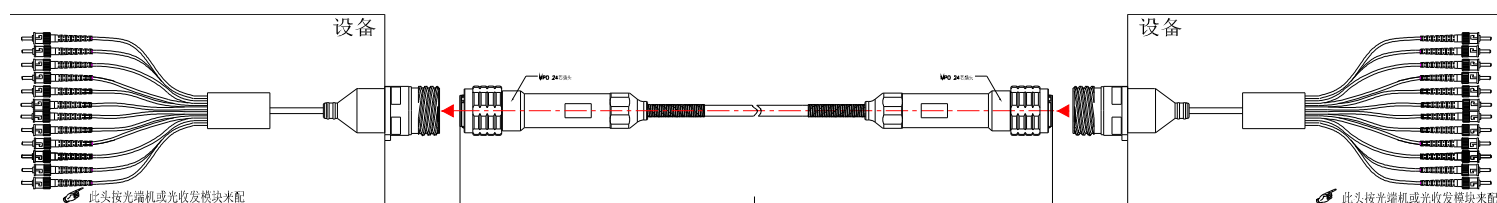
Cable Parameter

Cable OD.	5.0mm
Outer Sheath	TPU or LSZH
Anti-push Unit	KEVLAR
Fiber Type	9/125、50/125、62.5/125
Fiber Outer	9/125/250um fiber
Tensile Strength	Short term: 600N/ Long term: 200N

Branch Connector



Connection Drawing



Two equipment Link connection drawing