Electro-Optic Connector

Subsea Hybrid Fiber-Optic & Electrical Connector Series

MarineConn electro-optic connectors integrate optical and electrical channels in a single subsea connector, enabling high-speed data transmission and power delivery through one sealed interface. All series are IP68 watertight, built in stainless steel 316L, and engineered for ROV / AUV, deep-sea energy systems, marine engineering and offshore subsea applications.







Key Features

- Hybrid optical + electrical configuration: 2F, 4F, 2F2E, 2F4E, 2F5E, 4E2F, 4F4E and custom layouts
- IP68 watertight, rated for deep-sea subsea operation
- Stainless steel 316L corrosion-resistant body
- Circular plug / receptacle design with identical-diameter terminal modules
- Custom configurations for offshore and deep-sea engineering projects

Series Overview

F-Series (2F / 4F)	Pure fiber-optic channels for high-bandwidth subsea communication
FE-Series (2F2E / 2F4E / 2F5E / 4F4E)	Combined fiber and electrical power/signal channels
EF-Series (4E2F)	Electrical-dominant hybrid for instrument and process detection
Custom Hybrid	Tailored channel count, shell size and cable integration

Product Gallery — 30 Models

Click any product to open its page on www.marineconn.com



1 Micro Hybrid Optoelectronic Connector for Underwater Drones



2 IP68 Subsea Optoelectronic Connector for Marine Engineering



3 High-Performance IP68 Waterproof Optoelectronic Connector



4 High-Density Underwater Hybrid Connector 4 Optical 8 Electrical



5 2 Optical + 4 Electrical Hybrid Connector for Deep Sea ROV



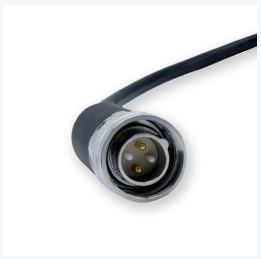
6 2F5E Underwater Electro-Optic Connector for ROV



7 IP68 SS316L Circular Waterproof Hybrid Fiber Optic Electric Connector



8 Hybrid Optoelectronic Connector for Deep-Sea ROV



9 IP68 Underwater Hybrid Fiber-Electric Connector



10 IP68 Subsea High Power Hybrid Optoelectronic Waterproof Connector



11 Marine Grade Hybrid Opto-Electrical Connector



12 High-Density Underwater Hybrid Connector (4 Optic + 8 Electrical)



13 Marine Grade Hybrid Connector for Deep-Sea Energy Systems



14 IP68 Waterproof Underwater Optoelectronic Connector



15 Marine Grade Hybrid Fiber-Electric Connector for ROV/AUV

Product Gallery — 30 Models

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16 4-Optic 8-Electrical Subsea Optoelectronic Connector



17 IP68 Waterproof ROV Circular Plug Connector High-Power Hybrid



18 2F2E Underwater Electro-Optic Connector for ROV



19 Marine Grade High-Density Hybrid Fiber-Electric Connector



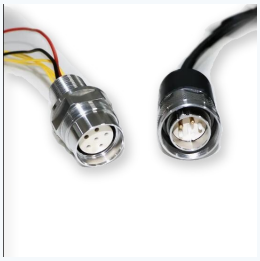
20 2F4E Underwater Electro-Optic Connector for ROV



21 2F4E Underwater Electro-Optic Hybrid Connector for ROV



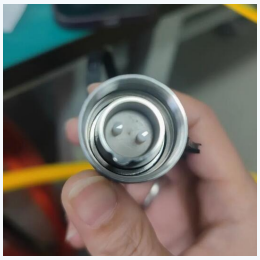
22 4F4E Underwater Electro-Optic Connector for ROV



23 Custom Underwater Electro-Optic Connector for ROV/AUV Offshore Subsea



24 SMF Underwater Electro-Optic Connector for ROV



25 2F Underwater Electro-Optic Connector for ROV



26 4F Underwater Electro-Optic Connector for ROV



27 2F2E Underwater Electro-Optic Connector with IP68 Watertight for AUV



28 2F4E Deep Sea Electro-Optic Aviation Connector, Stainless Steel



29 4E2F Underwater Electro-Optic Connector IP68 for Industrial Detection



30 8-Pin Waterproof Aviation Connector

Specifications & Ordering

Configuration	Hybrid optical + electrical; F / FE / EF series and custom channel layouts
Fiber Type	Single-mode (SMF) or multi-mode fiber
Electrical Channels	2 – 8 contacts (power + signal), custom counts available
Ingress Protection	IP68 watertight, deep-sea pressure rated
Shell Material	Stainless Steel 316L, corrosion-resistant for marine environments
Mating Design	Circular plug / receptacle with identical-diameter terminal modules
Operating Depth	Deep-sea rated (custom pressure ratings on request)
Applications	ROV, AUV, underwater drones, deep-sea energy systems, offshore subsea engineering

More Products






Contact MarineConn

Website: https://www.marineconn.com/
E-mail: info@MarineConn.com

About MarineConn

MarineConn is a manufacturer of subsea connectors, underwater electrical connectors and waterproof connector solutions, specializing in watertight connectors, cameras, sealed housing and customized connectors for all types of underwater products. We focus on product manufacturing to build a strong brand and support OEM / ODM customization for global marine engineering customers.