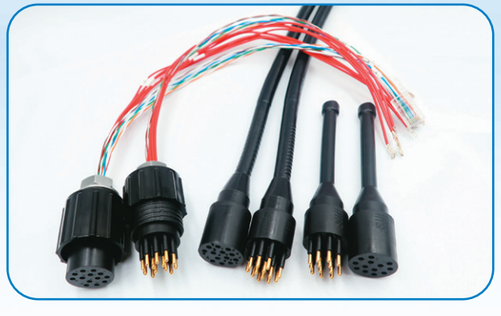
1.9 Gigabit Ethernet Series Watertight Cable Assembly

This series of cable assemblies is specially designed for underwater high-speed data transmission. It adopts standard, micro and flat watertight connectors matched with gigabit Ethernet watertight cables, supporting a transmission rate up to 1000 Mbps. It ensures real-time and stable transmission of high-definition video and large-capacity data, meeting the stringent requirements for bandwidth and reliability in underwater applications.

The cable adopts a high-shielding twisted pair structure, which greatly enhances anti-electromagnetic interference capability, effectively suppresses signal attenuation, and guarantees signal integrity in complex underwater environments. It is widely applied in key scenarios requiring extremely high data rate and stability, such as underwater high-definition camera systems, ROV remote control, and seabed monitoring networks, serving as an ideal solution for underwater high-speed communication.

		Male View					
Electrical Parameter	Number of Pins	8-Pin	10-Pin	12-Pin	13-Pin	16-Pin	13-Pin
	Rated Current	2A	7A/2A	7A/2A	7A/2A	7A/2A	7A/2A
Ordering Codes	Micro Male Receptacle	MCDBH8M	MCDBH10M	MCDBH12M	MCDBH13M	MCDBH16M	DLPBH13M
	Micro Female Cable	MCDIL8F	MCDIL10F	MCDIL12F	MCDIL13F	MCDIL16F	DLPIL13M
	Micro Male Blanking Plug	MCDC8M	MCDC10M	MCDC12M	MCDC13M	MCDC16M	DLPDC13M
	Micro Female Blanking Plug	MCDC8F	MCDC10F	MCDC12F	MCDC13F	MCDC16F	DLPDC13F
Cable Wiring Sequence		1:Orange-White 2:Orange 3:Green-White 4:Blue 5:Blue-White 6:Green 7:Brown-White 8:Brown	1:Red 2: Black 3:Orange-White 4:Orange 5:Green-White 6:Blue 7:Blue-White 8:Green 9:Brown-White 10:Brown	1:Red 2:Black 3:Yellow 4: Blue 5:Orange-White 6:Orange 7:Green-White 8:Blue 9:Blue-White 10:Green 11:Brown-White 12:Brown (Power cable 0.75 mm²)	1:Red 2:Black 3:Yellow 4:Blue 5: Brown 6:Orange-White 7:Orange 8:Green-White 9:Blue 10:Blue-White 11:Green 12:Brown-White 13:Brown	1:Red 2:Black 3:Yellow 4: Blue 5:Orange 6:Brown 7:Purple 8:Green 9:Orange-White 10:Orange 11:Green-White 12:Blue 13:Blue-White 14:Green 15:Brown-White 16:Brown	1:Red 2:Black 3:Yellow 4:Blue 5:Brown 6:Orange-White 7:Orange 8:Green-White 9:Blue 10:Blue-White 11:Green 12:Brown-White 13:Brown
Mounting Thread		7/16-20UNF-2A Thread Length: 16mm	1/2-20UNF-2A, Thread Length: 19mm				1/2-20UNF-2A Thread Length: 25mm
Dimension Drawing Reference Page		P18-19	P20-21				P31

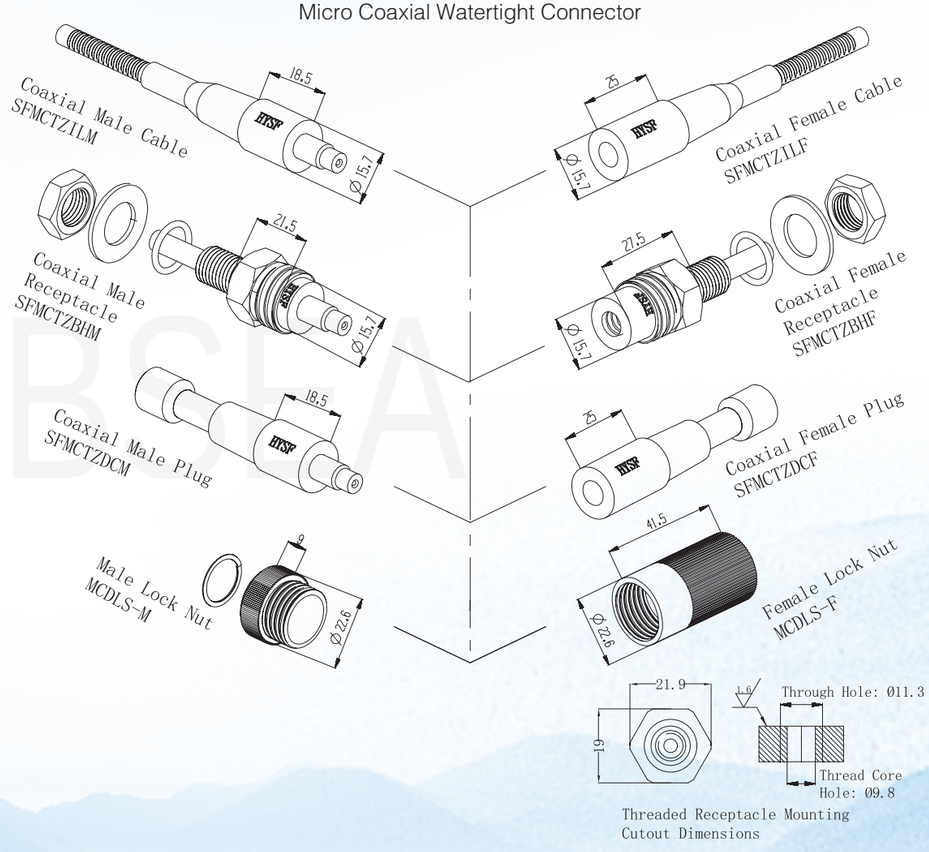


1.10 Coaxial Series Watertight Connectors

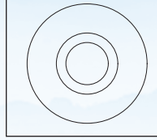
This series of coaxial watertight connectors is specially designed for underwater RF signal transmission, supporting stable transmission of high-frequency signals with low insertion loss and high return loss performance.Adopting 50Ω or 75Ω impedance matching design to ensure signal integrity, it is suitable for RF applications such as radar, sonar and video transmission.It can operate reliably for a long time in deep-sea high-pressure environments.Widely applied in high-frequency signal transmission fields including underwater communication systems, acoustic detection equipment and underwater video monitoring.

Technical Parameters & Order Numbers:

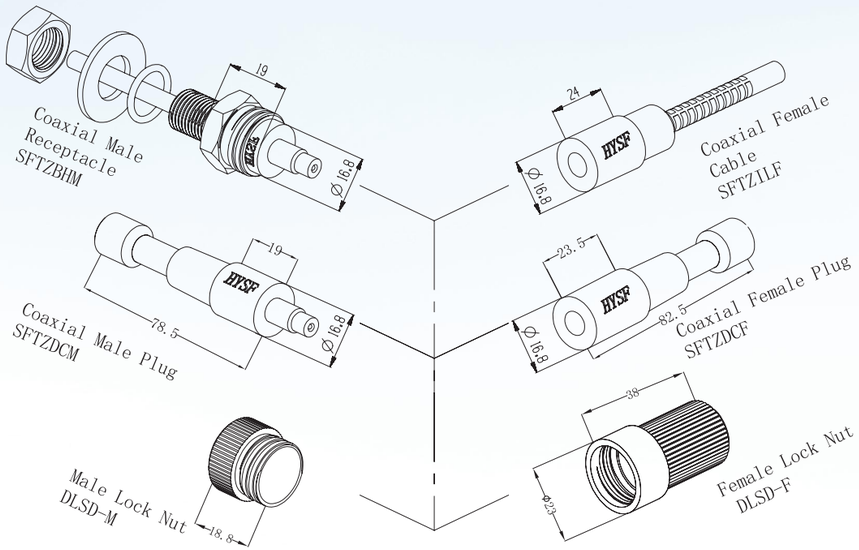
Micro Coaxial Watertight Connector

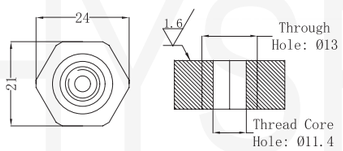


Threaded Receptacle Mounting Cutout Dimensions

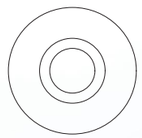
Male View	Main Parameters					Notes
	Working Pressure	Coaxial Cable	Signal Transmission Frequency	Voltage Standing Wave Ratio	Return Loss	
	50MPa	75-3 50-3	1.6GHZ	1.3	-0.75DB	Installation Requirements: Drawing dimension unit: mm, base mounting radius: 12.3 mm, surface finish: Ra1.6, mounting thread: 7/16-20UNF-2A, thread length: 16 mm.

Coaxial 50–5 Watertight Connector

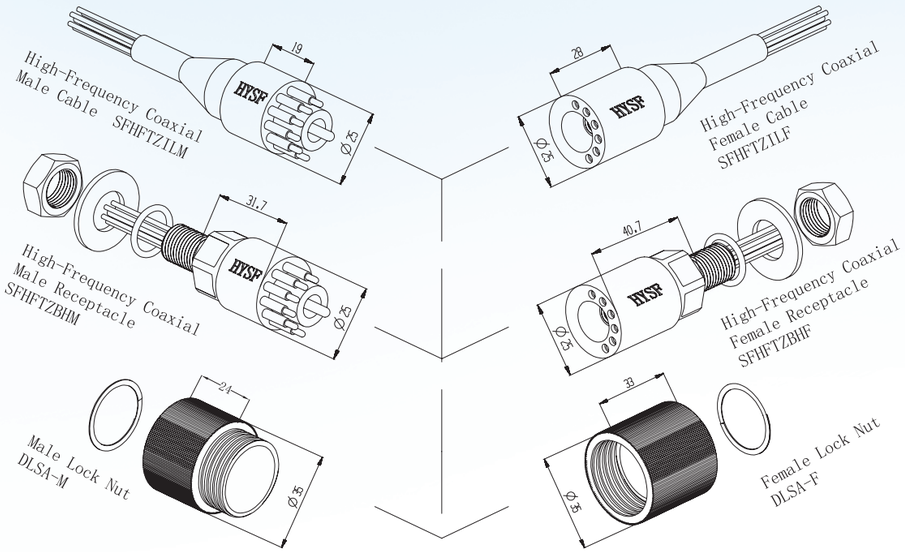


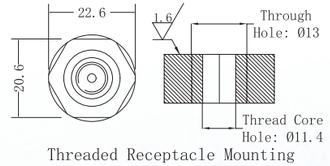


Threaded Receptacle Mounting
Cutout Dimensions

Male View	Main Parameters					Notes
	Working Pressure	Coaxial Cable	Signal Transmission Frequency	Voltage Standing Wave Ratio	Return Loss	
	50MPa	50–3 50–5	1.6GHZ	1.3	–0.75DB	Installation Requirements: Drawing dimension unit: mm, base mounting radius: 12.5 mm, surface finish: Ra1.6, mounting thread: 1/2–20UNF–2A, thread length: 16 mm.

High–Frequency Coaxial Watertight Connector





Threaded Receptacle Mounting
Cutout Dimensions

Male View	Main Parameters								Notes
	Number of Pins	Rated Current	Cable Wiring Sequence	Working Pressure	Coaxial Cable	Signal Trans–mission Frequency	Voltage Standing Wave Ratio	Return Loss	
	6 Power + 1 Coax–ial	5A	1:Red 2:Black 3:Yellow 4:Blue 5:Orange 6:Brown	50MPa	75–3	1.6GHZ	1.3	–0.75DB	Installation Requirements: Drawing dimension unit: mm,base mounting radius: 18.5mm, surface finish: Ra1.6, mounting thread:1/2–20UNF–2A, thread length: 19 mm.