HYSF SUBSEA Expands Custom Underwater Connector and Cable Assembly Capabilities

Custom connector and cable assembly support helps OEMs address project-specific electrical, mechanical and subsea integration requirements.



HYSF SUBSEA

LANGFANG, SHANDONG, CHINA, September 30, 2026 / EINPresswire.com/ -- HYSF SUBSEA, an underwater connector manufacturer serving marine robotics, offshore energy, oceanographic instrumentation and subsea equipment manufacturers, has expanded its custom connector and cable assembly capabilities for OEM projects requiring application-specific electrical, mechanical and environmental configurations.

> “Custom subsea connectivity is not only about changing a cable length. The connector, cable, mounting interface and electrical requirements must work as one system.”
>
> *Rain Wu, Business Development Manager, HYSF SUBSEA*

The expanded engineering support is intended for equipment manufacturers that need more than a standard catalog connector. Projects can involve unusual cable lengths, conductor sizes, shielding requirements, mounting threads, connector orientations, housing materials, contact arrangements or cable termination methods.

HYSF SUBSEA supports custom underwater connectors and subsea cable assemblies for ROVs, AUVs, subsea sensors, cameras, sonar systems, offshore equipment and scientific instruments.

Custom Connectivity for OEM Subsea Systems

Standard connectors can meet many underwater applications, but OEM projects often introduce constraints that require additional engineering review. A pressure housing may have limited panel space, a cable may need a specific outer diameter, or a system may require a non-standard conductor size or termination method.

HYSF SUBSEA can review project requirements including voltage, current, contact count, operating depth, cable construction, shielding, mounting geometry, connector orientation and material selection before recommending a suitable configuration.

Available options can include custom cable lengths, pigtail assemblies, molded cable terminations, bulkhead connectors, inline connectors, right-angle versions, penetrators and pressure-balanced oil-filled interfaces depending on the application.
This approach allows engineers to select a connector architecture around the complete system rather than adapting the entire system to a single standard product.



HYSF SUBSEA hybrid electro-optical connectors combine electrical contacts and fiber-optic channels for subsea systems requiring integrated power and high-bandwidth data.



Ultra-compact connectors help ROV and AUV engineers integrate more sensors and electronics within limited pressure-housing space.

Custom Subsea Cable Assemblies
Cable design is a critical part of an underwater interconnection system.
HYSF SUBSEA provides custom subsea cable assemblies with project-specific cable lengths and conductor configurations. Depending on the project, engineering review can cover conductor size, number of cores, shielding, jacket material, cable outer diameter, bend requirements and termination details.
Assemblies can be supplied with connectors terminated at one or both ends, helping OEM customers reduce in-house soldering, molding and cable preparation work.

Pre-terminated cable assemblies can also support more consistent installation where multiple units must use the same cable length and connector orientation.

For prototype programs, customers can first review drawings and sample assemblies before finalizing production quantities.
Supporting Electrical, Data and Hybrid Requirements

Modern subsea systems increasingly combine power, control, communication and sensing in the same platform.
HYSF SUBSEA's product portfolio includes conventional electrical connectors as well as Ethernet, coaxial, fiber-optic, high-current and hybrid solutions. This allows custom projects to be reviewed according to the type of signal or power being transmitted rather than only the connector

shape.
A subsea vehicle, for example, may require high-current power for a thruster, Ethernet for a camera, signal contacts for sensors and fiber-optic transmission for high-bandwidth data.

Where appropriate, multiple functions can be integrated using project-specific cable assemblies or hybrid connector architectures.
"Custom subsea connectivity is not only about changing a cable length," said Rain Wu, Business Development Manager at HYSF SUBSEA. "The connector, cable, mounting interface and electrical requirements need to be engineered as one complete system."
Mechanical Integration and Engineering Documentation

Mechanical compatibility is especially important in pressure housings and compact underwater equipment.
HYSF SUBSEA can provide dimensional drawings, technical datasheets and STEP files to support connector placement, mounting-hole design and cable-routing evaluation.

Engineering review can also consider bulkhead thickness, mounting thread, available installation space, straight or right-angle cable exit and surrounding components.

For projects using existing equipment, customers can provide drawings, mating-face images, part numbers or system specifications to help identify a suitable standard or customized solution.

This can reduce unnecessary redesign work and help engineering teams evaluate connector integration earlier in the product development process.
Prototype and Small-Batch Support

OEM subsea development often begins with prototypes rather than large production quantities.
HYSF SUBSEA supports sample and small-batch requirements for many connector and cable assembly projects, allowing engineering teams to evaluate fit, mating, cable routing and electrical performance before moving to larger production volumes.

For repeat projects, approved cable lengths, connector orientations and assembly specifications can then be used as a consistent production reference.
This workflow is particularly useful for marine robotics companies, research institutions and equipment manufacturers developing new platforms or modifying existing subsea systems.

Applications Across Marine Technology
Custom underwater connectors and cable assemblies can be used across a wide range of marine applications, including ROVs, AUVs, underwater cameras, sonar systems, scientific sensors, offshore monitoring equipment, subsea tooling and oceanographic instruments.
Each project can have different priorities. A compact AUV may focus on size and weight, while

offshore equipment may prioritize current capacity, cable durability or long-term installation requirements.

By combining standard connector families with OEM engineering support, HYSF SUBSEA aims to give customers more flexibility when a catalog configuration does not fully match the application.

About HYSF SUBSEA
HYSF SUBSEA is an underwater connector manufacturer providing electrical, Ethernet, coaxial, fiber-optic, high-current, hybrid and custom connectivity solutions for marine and subsea applications.

The company supports ROVs, AUVs, offshore energy systems, oceanographic instruments, underwater sensors and other marine technology platforms. Its product portfolio includes underwater connectors, bulkhead receptacles, inline connectors, penetrators, PBOF solutions and custom subsea cable assemblies.

Rain wu
HYSF SUBSEA
+ +86 159 6013 1727
email us here
Visit us on social media:
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