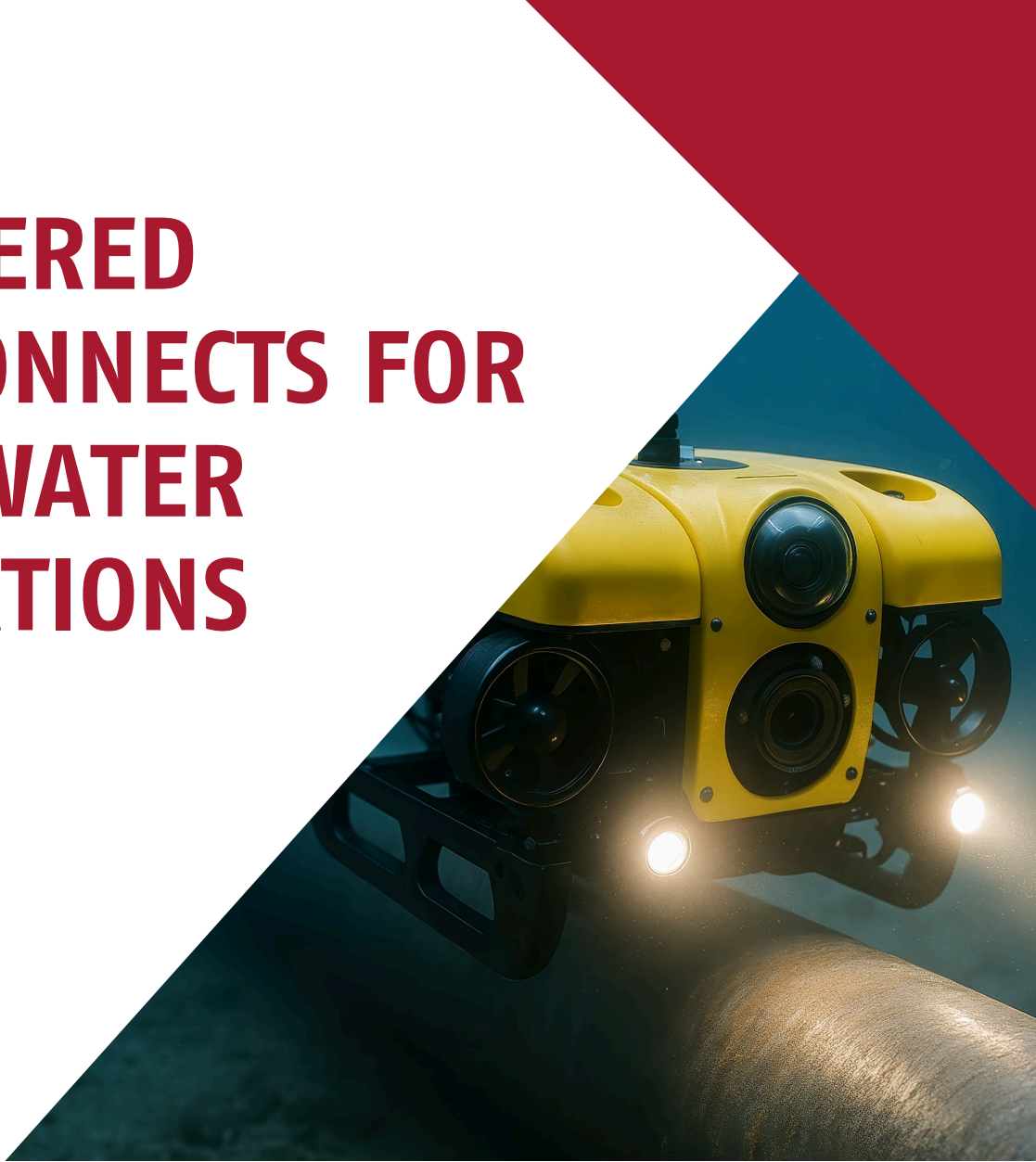


# ENGINEERED INTERCONNECTS FOR UNDERWATER APPLICATIONS

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# UNDER PRESSURE

## *RELIABILITY MATTERS*

Beneath the surface, every mission relies on reliable electrical and data connections. The subsea environment is unforgiving: extreme pressure, vibration, saltwater corrosion and thermal cycling. Whether it's oil exploration in deep waters or military defense on the seas, there is no margin for failure.

Winchester Interconnect's Subsea Solutions are designed and tested to meet the toughest ocean conditions. High-precision connectors, cables and assemblies deliver reliable power and signal for critical underwater missions, keeping vehicles, sensors and defense systems connected and performing at depth.

### TECHNICAL SNAPSHOT:

#### Cable

- Depth ratings: up to 7,000 meters (23,000 ft)
- Up to 100,000 lbs breaking strength, using synthetic fiber or steel
- Full electrical, optical and mechanical testing

#### Connectors

- Rated >10,000 PSI
- Corrosion-resistant materials
- MIL-SPEC M83513 & M32139
- Precision machining and advanced Hybrid Polymer Extrusion (HYPE) encapsulation



# COMPREHENSIVE CONNECTIVITY

## *FROM END TO END*

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### CUSTOM & SPECIALTY CABLE SOLUTIONS

- Tow Cable – Strengthened, low-loss cables for long-range signal transmission in towed body arrays
- Armored Cable – Single- and multi-layer steel armor configurations that provide reliable protection against mechanical loads, corrosive environments and long-term submersion
- Neutrally Buoyant Cable – Designed for specific water depths to eliminate vertical tension while maintaining consistent positioning
- Fairing Designs – Reduce vibration and strumming on cables deployed in high currents & high speed tow applications to minimize wear, prevent damage, and keep cable stable

### XTREME™ SUBSEA CABLE

- Xtreme-Net® – Ruggedized data cables for underwater networks and sensing applications
- Xtreme-Green® – Power and control cables with superior insulation and chemical resistance
- Xtreme-Cat® – High-speed Ethernet cables engineered for subsea communications
- Xtreme-Light® – Lightweight, flexible fiber cables ideal for dynamic and towed applications
- Xtreme-Marine® E0 – Fiber optic & power components reinforced with synthetic fiber or steel layers

### CONNECTORS & CABLE ASSEMBLIES

- Snap Lock Fiber Optic Connectors – Watertight, quick-locking connectors for high-speed optical links
- Custom Interconnects – Engineered for your unique application
- Micro-D and Nano-D Connectors – Miniature and ultralight, high-density interconnects for compact subsea electronics; including MIL-SPEC M83513 and M32139
- Micro-D and Nano-D Cable Assemblies – Sealed, overmolded assemblies for precise data and control transmission; Lightweight, flexible, and robust solutions for UUVs and sensors
- MCIL and MRIL Series – Wet Mated connector, exceeding (uni-mated) 10,000 PSI, engineered for subsea reliability.
- RMG / RMK Series – Robust Composite and metal connectors with nickel or stainless finishes for corrosion protection. Rating (Mated): Up to 20,000 PSI (approx. 13,700 meters water depth).
- Machine Parts – Precision-machined components for subsea housings and integration.
- Encapsulation of Electronics and Components with our NEW Hybrid Polymer Extrusion (HYPE) capabilities

## APPLICATIONS

- Remotely Operated Vehicles (ROVs)
- Autonomous Underwater Vehicles (AUVs)
- Unmanned Underwater Vehicles (UUVs)
- Subsea Sensors and Instrumentation
- Torpedoes and Launch Systems
- Submarines and Submarine Networks
- Anti-Submarine Warfare (ASW) Systems
- Towed Body Arrays and Acoustic Systems
- Mine Countermeasure Platforms
- Oceanographic Observatories & Fisheries
- Long-term seafloor applications

## The Winchester Advantage

- Proven performance in military and commercial applications
- Full in-house design, manufacturing, and turnkey cable assemblies
- Custom-engineered for each mission profile
- ITAR-registered, ISO 9000 and AS9100D certified
- Short runs for full testing & qualification
- Global manufacturing footprint

**One company, unlimited applications.**



[www.winconn.com](http://www.winconn.com)

 **Winchester**  
Interconnect™

The logo for Winchester Interconnect, featuring a red circle with three white dots inside, followed by the company name in a bold, dark blue font.