



elocab Underwater Cables for Extreme Environments

We connect
your world-chang-
ing visions to reality,
even beneath the
waves.

Empowering Exploration & Innovation Beneath the Surface

In the challenging depths of the ocean, reliable connections are paramount.

BizLink elocab specializes in engineering custom cable solutions that defy extreme pressures, corrosive salt-water, and vast distances, ensuring uninterrupted operation of your critical subsea systems.

Our specialized underwater cables are crucial for a diverse range of high-stakes marine applications:

- **Remote-Operated Vehicles (ROVs)** › Enabling deep, dangerous, or long-duration tasks, with capabilities like high-res cameras, sensors, sonar, and robotic arms.
- **Industries** › Oil & gas pipeline inspection, marine research, infrastructure inspection, defense & security, media & film production.
- **Ocean Cleaning** › Supporting systems that collect plastic waste and debris, and aid in oil spill cleanup.
- **Wave & Tidal Power Plants** › Providing connectivity for harnessing kinetic energy from moving water, with tidal power valued for its predictability.
- **Deep Sea Mining** › Facilitating the operation of collector equipment retrieving mineral resources from depths of up to 1000 meters.



ENGINEERED FOR EXCELLENCE > The BizLink eLocab Advantage

Our custom underwater cables are meticulously crafted hybrid assemblies, integrating diverse elements to provide a complete solution.

Key Characteristics & Components

- **Extreme Durability** > Withstand water pressure at depth Longitudinal (up to 1,000m/100 bar) and Transversal (up to 10,000m/1000 bar), corrosive saltwater, UV/sunlight, oil, petrol, acids, barnacles, and mechanical marine hazards like shark bites.
- **Thermal Stability** > Adaptable to varying underwater temperatures.
- **Hybrid Integration** > Seamlessly combine power cores (up to 6 kV), control cores, high-speed data (up to CAT 7, fiber optics), bus cables, and tubes for air/fluid.
- **Reinforced & Flexible** > Utilizing PU, TPU, or cross-linked jacket materials for strength, and designed for flexibility for spooling and dynamic movement.
- **Water-Blocking Designs** > Including gel fillers to prevent moisture ingress and protect fibers.
- **EMC Optimization** > Advanced shielding (multi-layer, foil, braided, served) and proper termination to eliminate EMI/RFI, ensuring pristine signal integrity.
- **High Tensile Strength** > Up to 100 kN for towing, with balanced torque designs.
- **Environmental Compliance** > Materials are environmentally benign and comply with regulations.
- **Custom Design & Manufacturing** > Tailored to specific customer requirements.
- **Buoyancy Options** > Floating, or sea-floor placement designs.

Need your cable assembled? We provide professional assembly services. Contact us for details.

In Global Resources, Local Services

Founded in 1996 and headquartered in Silicon Valley, BizLink is dedicated to making transformative connections that bring visionary ideas to life.

Our state-of-the-art BizLink eLocab facilities in Canada and Germany have advanced manufacturing processes and highly professional research and development capabilities.

With our global R&D teams, BizLink provides reliable connectivity solutions near you when you need us.

Connect with us to discuss your custom underwater cable requirements!

