

Teledyne Interconnect Solutions

YOUR PARTNER IN CONNECTIVITY

Wire, Cable,
Electrical / Optical
Connectors and
Assemblies for
Demanding
Environments

We are **Teledyne Interconnect Solutions**, specializing in application-specific cable and interconnect solutions for land, water, air, and space.

We help our customers' products perform at the highest level in the most demanding environments by supplying ruggedized, high-reliability electrical and optical interconnect solutions to markets where performance, reliability, precision, and quality are critical.

 **TELEDYNE**

Interconnect Solutions

The Unique Value We Offer

Solutions engineered to solve your interconnect challenges, by providing:

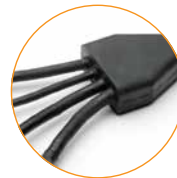
- Vertical integration with access to a wide variety of industry-leading materials and capabilities
- Short manufacturing lead times and on-time delivery
- Accurate and rapid prototyping fulfillment
- Supply chain security and risk management through multiple manufacturing sites
- One-stop shopping for complete interconnect solutions
- Exceptional customer service and support
- Customized replenishment and stocking programs
- Engineering team with decades of experience in application, products, and process
- Full access to Teledyne research labs
- Competitive total operational cost—from design through the life of your product
- Application-specific solutions through close partnerships with our customers



Manufacture of electrical conductors from raw copper



Custom multiconductor harsh-environment cable design and construction



Ruggedized termination and overmold using high-performance materials

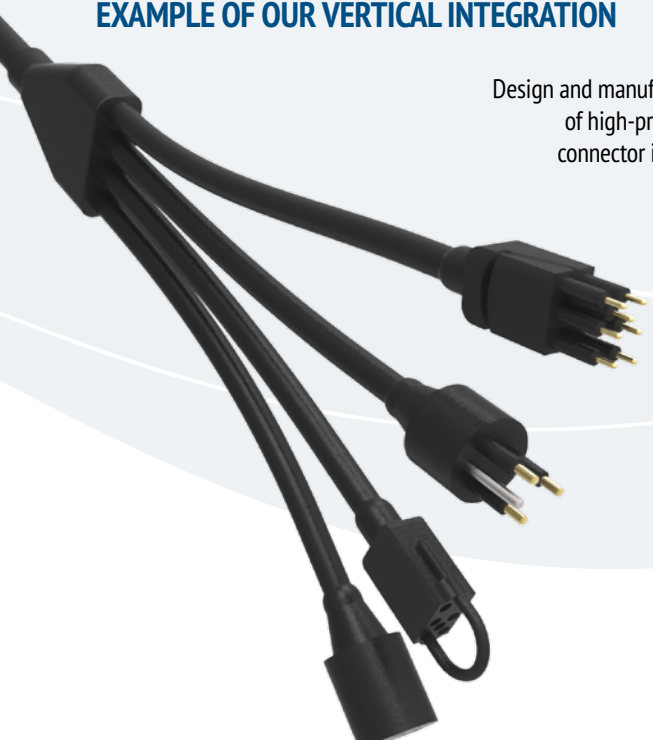
EXAMPLE OF OUR VERTICAL INTEGRATION



Design and manufacture of high-pressure connector inserts



Design and manufacture of Impulse electrical connectors



Certifications and Standards

- ISO 9001, IPC 620 Class 3, J-STD-01, CSA 5852 01/67653
- IP 67 & 68, UL, IECEx
- ITAR registered in US locations
- Site registration for IPC
- SOC 2 compliant



Wire and Conductors

Conductors: Copper, fiber optics, high strength alloys, and most metal conductors

Insulations: FEP, PFA, Tefzel, Polyolefin, Polypropylene, TPR, TPE-O, Polyurethane, PVC, tape wrap, cross-linked, Halogen-free

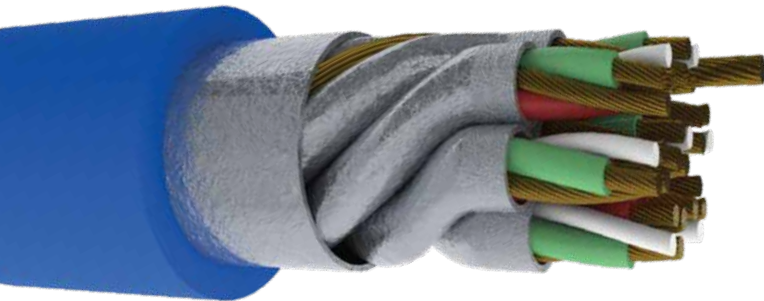
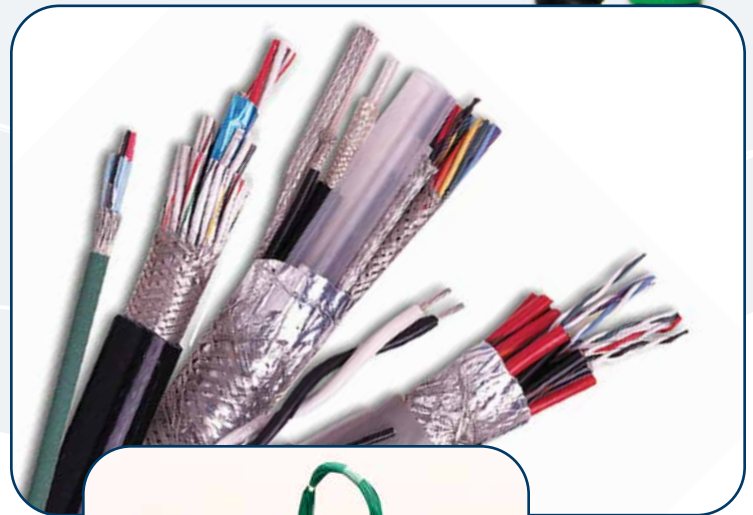
Cable

Multi Core: Shielded pairs, pairs with steel-tubed fiber or copper, conductors with fiber optics, coaxial conductors and aramid strength fibers, power cable, special shielding requirements, special color, and special extruded shapes. Whether traditional construction or hybrid, we can engineer the solution.

Functional Enhancement: Strength members such as Kevlar, Vectran, polyester, nylon, fiberglass rod, stainless steel, water-blocking solutions using silicon, hot melt products, water swellable tapes and fillers, controlled buoyancy, coiled cables, high flex

Shielding: RFI and EMI tapes and braids, stainless steel, bronze, aramid fiber, textile, conductive fabrics, tensile members

Jackets: FEP, PFA, Tefzel, polyolefins, polypropylene, TPR, TPE-O, polyurethane, PVC, tape wrap, cross-linked, halogen-free



Cable Testing

Electrical Testing:

- Hi-pot (high-voltage electric test)
- Continuity (checks for any broken wires)
- Shorts (determines that there are no breaks in your insulation)
- Impedance (for telemetry cables for long distance communication)
- Capacitance (for long-distance communication)
- Insulation Resistance (similar to hi-pot test; measures the effectiveness of the electrical insulation)

Additional custom electrical or mechanical testing per customer needs.

Mechanical Testing:

- Cable Flex
- Temperature Performance (thermal cycling)
- Abrasion and Cut Resistant
- Impact Testing
- Stress/Strain Resistance
- Pressure Testing
- Pull Force (tensile)

Connector Solutions

Dry Mate Electrical Connectors: Extremely small underwater sensor connectors to large and rugged metal shell products. Mostly designed for use with molded cable assemblies. Oil-filled options available.

Splash Mate Electrical Connectors: Designed to be mated when wet. Molded in neoprene or polyurethane. Circular or low-profile, right-angled design. Also housed in rugged metal shells that enable the parts to be blind-mated.

Wet Mate Electrical Connectors: Pressure balanced, molded connectors that allow mating and unmating at different depths, for various diver-based applications.

Seismic Connectors: Designed, built, and tested for extreme high-shock environments with aggressive deployment/retrieval.

Optical/Hybrid Connectors: Small form factor single-fiber submersible connectors. Multi-contact configurable electro-optic hybrid connectors.

Other: Molded penetrator assemblies, magnetically operated proximity switches.

Connector Testing

Wide range of state-of-the-art test equipment to perform both standard and customer-specified test processes, including:

- Receiving Inspection using XRF Material Analyzer, Vision Inspection System, Rheometer, and Plating Analyzer
- Automated Electrical Test Equipment
- Non-Destructive X-Ray Testing
- Hydrostatic Testing
- Thermal Cycling
- Mating Cycle Testing



Assemblies and Other Products

Cable Assemblies / Cable Terminations:

- Wide range of standard or custom-molded cable assemblies using application-specific materials and manufacturing processes.
- Turn-key design and production using Teledyne or other manufacturers' components.
- Strength member terminations.
- Assemblies for Class 1 Div 2 (potential explosive areas).
- Largest mold library in the industry.

Custom Molding, Encapsulation, and Electro-Mechanical Assemblies

- Hydrophones
- Depth and Pressure Sensors
- Marine Source Management Systems
- Inclinometers / Accelerometers
- Junction Boxes



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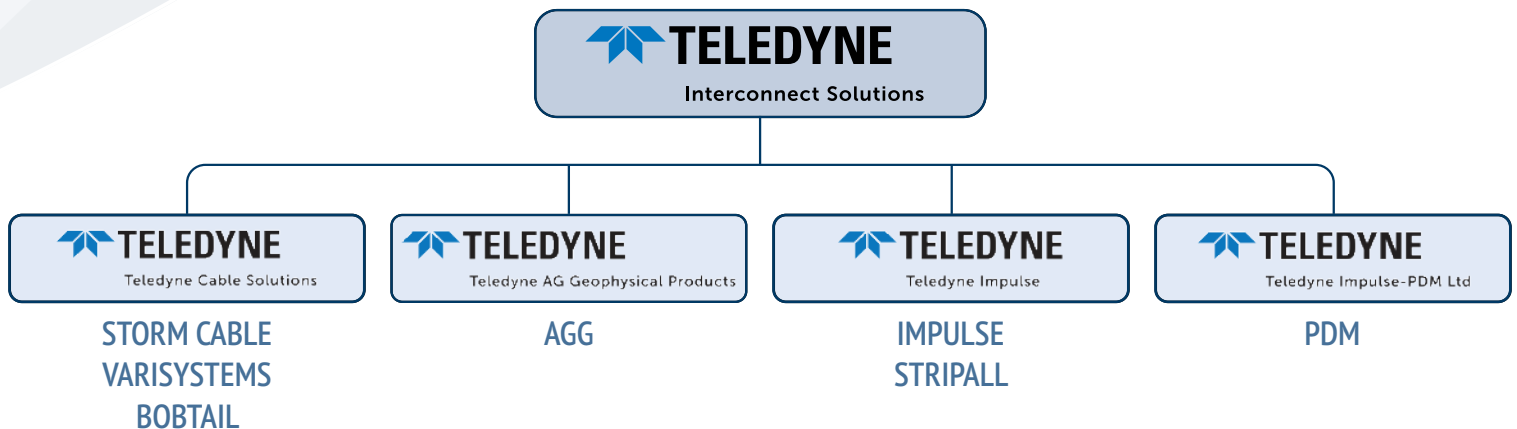
We serve market segments where performance, reliability, precision, and quality are critical. Applications using our solutions cover land, water, air, and space.

As part of Teledyne Technologies, one of the most innovative corporations in the world, we offer advanced material sciences research and development, and state-of-the-art technology-driven capabilities.

We are everywhere you look.®

Industries We Serve

DEFENSE • ENERGY • MARINE • SEISMIC • TRANSPORTATION • SECURITY
AGRICULTURE • MINING • MEDICAL INSTRUMENTS • HEAVY MACHINERY
INDUSTRIAL APPLICATIONS • INFRASTRUCTURE • PIPE INSPECTION & REPAIR
OUTDOOR INSTRUMENTATION • OCEANOGRAPHIC • ROBOTICS
AEROSPACE • NUCLEAR SYSTEMS • WATER MONITORING
SUBSEA CABLES • SEMICONDUCTOR MANUFACTURING
AND MANY OTHER INDUSTRIES



Interconnect Solutions A part of Teledyne Marine

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