



Rochester
Cable

Company Overview

Engineered cable solutions
for harsh environments



Founded in 1794,
Rochester Cable is
one of the oldest
manufacturers in the
United States.



Who we are

Founded in 1794, Rochester Cable is one of the oldest manufacturers in the United States and a trusted provider of rugged electro-optical cable solutions for harsh environments. From our headquarters in Culpeper, Virginia, we support customers operating beneath the ocean, down oil and gas wells, in defense systems, and across other demanding industrial applications where reliability matters.

Our cables are built for environments where motion, pressure, abrasion, temperature extremes, and long service life all shape performance. As part of the Hexatronic Group, Rochester Cable combines a deep manufacturing heritage with modern engineering and a practical understanding of how cables must perform within larger working systems in the field.



What customers can rely on



In-house collaboration from early requirements through build and validation



Design flexibility to meet electrical, mechanical, and environmental needs



Manufacturing discipline focused on consistency and quality



Testing capability aligned with high-performance expectations

Built for high-stakes work

Rochester Cable is built around disciplined execution. We operate with a quality-first mindset and documentation practices that support compliance-driven requirements, so customers can trust that what is approved is what gets built. That consistency matters when cables are part of larger systems, long service lives, and high-stakes environments.



Recognized for meeting quality, safety, and compliance requirements.

Backed by Hexatronic. Made for harsh environments.

Rochester Cable is part of Hexatronic Group, a global organization focused on fiber and connectivity technologies. For our customers, that means Rochester's cable expertise is supported by broader engineering knowledge, international reach, and access to complementary technologies that strengthen complete system performance.

Through Hexatronic, Rochester Cable benefits from shared technical insight, long-term investment in manufacturing and innovation, and a wider network of expertise across products, markets, and operating companies.

What Hexatronic adds

- **Global reach and capability** to support customers across regions
- **Investment in technology and manufacturing** that strengthens reliability
- **Shared engineering expertise** across products, markets, and operating entities
- **A commitment to responsible, innovative growth** and continuous improvement



Hexatronic Harsh Environment

Rochester Cable operates within Hexatronic's Harsh Environment business area, which focuses on engineered solutions built to perform in extreme and demanding conditions. Across the business area, capabilities span dynamic cables, connectivity, and sensing — three critical elements that support reliable operation in larger systems.

Dynamic cables help transfer power, signals, data, and other media through environments that involve motion, depth, pressure, abrasion, or mechanical stress. Connectivity solutions help ensure those links remain secure and dependable at key connection points throughout a system. Sensing technologies add another layer of performance by helping customers monitor temperature, strain, and other physical conditions that affect operations.

Together, these capabilities create a broader toolkit for customers working in subsea, defense, energy, and other harsh environment applications where failure is not an option.

HOW IT WORKS TOGETHER

Three core capabilities. One integrated approach.

Dynamic cables

Carry power, data, and signals through harsh, motion-intensive environments.

Connectivity

Supports secure, dependable links between critical system components.

Sensing

Provides insight into temperature, strain, and other physical conditions.

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Solutions for harsh environments

Rochester Cable designs and manufactures cable solutions tailored to harsh-environment applications where performance, reliability, and durability matter most. We support customers across industries with rugged designs built to withstand demanding operational conditions and perform consistently over time.

Markets and Capabilities

Work Class ROVs

Durable cables for tethering, lifting, and deck operations in subsea environments.

Oil and Gas Exploration and Production

High-performance cables engineered for pressure, temperature, and demanding offshore conditions.

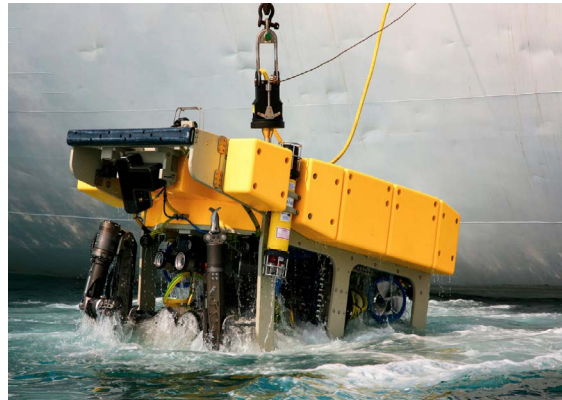


Downhole Logging

Advanced wireline solutions designed for harsh downhole environments and rugged performance.

Defense

Precision-engineered cables for mission-critical naval operations and advanced sensor systems.



Ocean Research

Rugged cable solutions for underwater exploration, monitoring, mapping, and marine systems.

Renewable Energy

Cables built to support wind, tidal, and other renewable energy systems in challenging environments.

Custom Cable Designs

Tailored solutions engineered in-house to meet unique electrical, mechanical, and environmental requirements.



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Work Class Remote Operated Vehicles (ROVs)

Work-class ROV systems depend on cable solutions that can handle motion, load, and exposure without becoming the weak point in the operation. Rochester Cable designs and manufactures ROV cables for harsh subsea conditions, with reliability and service life in mind.



Built for harsh environments

Our ROV cables are designed for challenging subsea conditions where motion, load, and exposure are part of daily operations.

Constructions are tailored to:

- Withstand dynamic handling and bend cycles
- Manage abrasion points and contact with sheaves, drums, and hardware
- Maintain performance over time in harsh marine environments

Cable types:

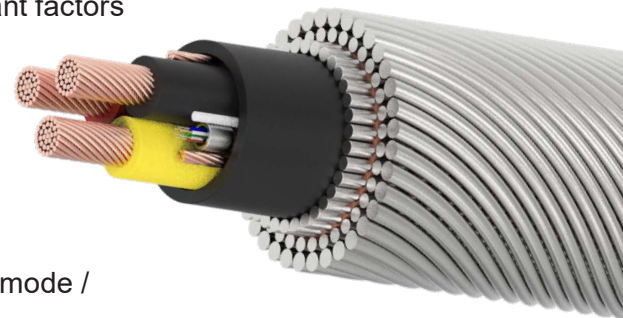
- Lift umbilicals
- Tethers
- Deck cables

Use cases

- ROV tethering and subsea operations
- Lift and deck handling, where abrasion and repeated flex are common
- Marine environments where exposure and endurance are constant factors

Our capabilities

- Construction features matched to dynamic motion and handling
- Design support for mechanical and environmental requirements
- Testing and validation aligned to performance expectations
- STEEL-LIGHT™ and ELECTRO-LIGHT™ fiber solutions (single-mode / multi-mode configurations)

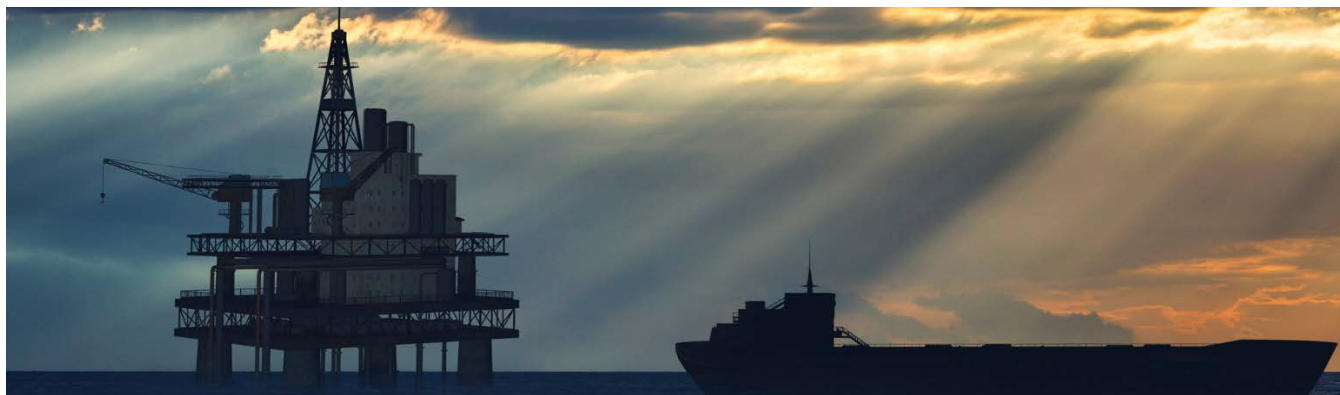


Designed for real-world handling

ROV environments create constant mechanical demand. We help customers align cable construction to how the cable is actually used—from deployment to recovery—so performance holds up over time.

Oil and Gas Exploration and Production

Deepwater drilling and subsea production pose unique challenges, including extreme pressures and harsh conditions that demand reliable, high-performance solutions. Rochester Cable delivers rugged cable solutions engineered for critical offshore environments where durability and performance are essential.



Built for harsh environments

Subsea environments place heavy demands on cable construction and long-term reliability.

Constructions are tailored to:

- Performance under pressure and harsh offshore exposure
- Construction durability for subsea environments and reliability
- Materials and armor selections aligned to application demands

Use cases

- Offshore drilling and exploration environments
- Subsea control systems and instrumentation
- Umbilical component integration for subsea applications

Cable / component types:

- Subsea umbilical power/control components
- MUX control cable assemblies
- Instrumentation and control cables

Our capabilities

- **MUX cables:** designed with lightweight armor for reliable data transmission and precise pressure control in blowout preventers (BOPs)
- Construction options, including **steel armor, synthetic strength members, or armor-free designs**, integrated into larger umbilical systems
- Design support aligned to mechanical and environmental requirements
- Testing/validation aligned to performance expectations

Designed for real-world handling

Subsea systems depend on components that integrate cleanly into larger assemblies and hold up over time. We help align cable construction to how it will be installed, protected, and operated—so performance remains dependable in the field.

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Downhole Logging

Rochester Cable brings **60 years of experience** supporting downhole logging with cable solutions built for demanding wellsite conditions where reliability, endurance, and performance are essential. Our constructions are designed to hold up through field handling and harsh downhole environments, including pressure, temperature, and abrasion.



Built for harsh environments

Downhole environments place heavy demands on cable construction, durability, and long-term reliability.

Constructions are tailored to:

- Motion endurance under bend and repeated handling
- Mechanical durability in demanding wellsite conditions
- Custom armor packages aligned to application demands
- Materials selected for exposure and long service life

Cable types:

- Single- and multi-conductor wireline
- Fiber wireline
- Alloy wireline
- Custom wireline designs

Use cases

- Downhole logging operations in harsh wellsite environments
- Applications requiring dependable performance under repeated handling and long runs
- Systems where data integrity and durability are critical

Our capabilities

- Construction matched to handling and endurance requirements
- Design support for mechanical and environmental requirements
- Testing and validation aligned to performance expectations
- **Jacketed wireline** (greaseless technology): uses a flexible polymer outer jacket to help **eliminate exposed armor wires, reduce environmental impact, and enhance durability**

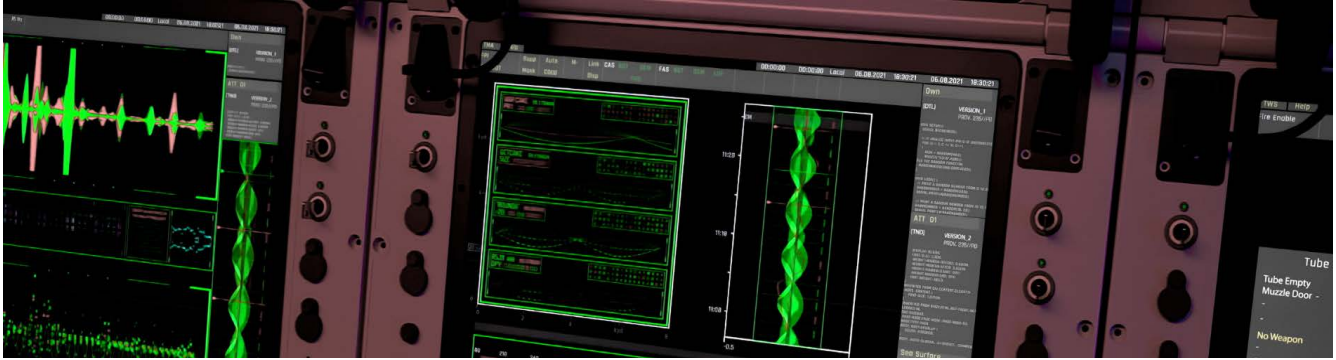


Designed for real-world handling

Downhole logging operations create constant mechanical demand. We help customers align cable construction to how the cable is actually used—from deployment to retrieval, so performance holds up over time.

Defense

Defense programs require cable solutions that perform in harsh environments and meet strict specifications. Rochester Cable manufactures engineered cable solutions in the U.S., designed for defense requirements where reliability, traceability, and performance expectations matter.



Built for harsh environments

Defense environments demand consistency, traceability, and performance under tough operating conditions.

Constructions are tailored to:

- Durability in harsh marine environments and service life
- Mechanical performance aligned to handling and installation realities
- Electrical/optical performance matched to system requirements
- Validation expectations defined early in the process

Use cases

- Naval and maritime defense environments
- Undersea systems and mission-critical sensing applications
- Programs requiring high reliability and specification-driven builds

Our capabilities

- U.S.-based manufacturing support and responsive collaboration
- Engineered-to-requirement builds for mission-critical applications
- Designs for mechanical, electrical, and environmental requirements
- Testing and validation aligned to performance expectations
- ITAR registered

Designed for specification-driven requirements

Defense programs depend on getting details right—materials, construction, documentation, and performance expectations. We work with customers to align cable design to real operating conditions and the requirements that matter most.

Cable types:

- Shielded signal and communication cables
- Electro-optical cables
- Rugged power/control cables
- Custom cable designs matched to specification requirements



ITAR registered for program compliance.

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Ocean Research

Ocean research depends on cable solutions that hold up through repeated deployment, retrieval, and long exposure in harsh marine environments. Rochester Cable supports ocean research programs with engineered cable solutions designed for service life, reliability, and real-world handling on vessels and in subsea operations.



Built for harsh environments

Ocean research environments demand performance under handling, exposure, and long deployments.

Constructions are tailored to:

- Mechanical durability for repeated deployment and retrieval
- Materials selected for harsh marine exposure and long service life
- Construction aligned to routing, abrasion points, and bend cycles
- Requirements defined early to match validation and performance expectations

Cable types:

- Tow cables
- Winch/deck handling cables
- Electro-optical cables
- Custom cable designs

Use cases

- Research vessel operations and deck handling
- Subsea deployments where abrasion, routing, and bend cycles are common
- Long-duration marine exposure where endurance and reliability matter

Our capabilities

- Construction features matched to handling and endurance requirements
- Design support for mechanical, electrical, and environmental needs
- Testing and validation aligned to performance expectations
- Options that support instrumentation and sensing requirements when needed

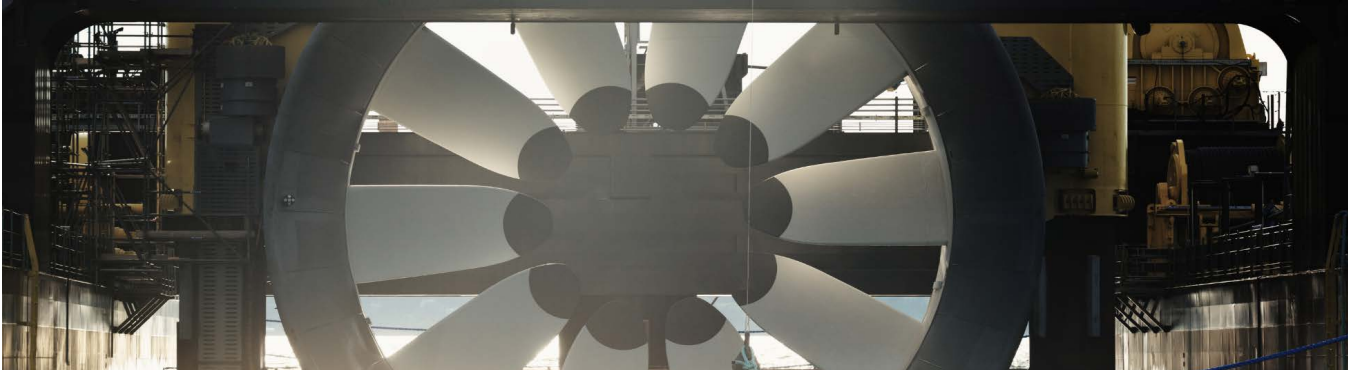
Designed for real-world handling

Ocean research systems operate in complex environments. Cables get routed on deck, run through hardware, and cycled repeatedly over the life of a project. We help align cable construction to those realities so performance holds up over time.

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Renewable Energy

Renewable energy environments require reliable cable solutions that withstand exposure, have a long service life, and meet installation requirements. Rochester Cable produces engineered cable solutions that adhere to harsh-environment design principles to meet the renewable energy needs of applications where reliability and performance are crucial.



Built for harsh environments

Renewable environments place long-term demands on construction durability and performance consistency.

Constructions are tailored to:

- Materials chosen for durability and resistance to long-term exposure
- Mechanical durability aligned to installation and handling realities
- Performance expectations defined early for the right validation approach
- Construction matched to electrical and environmental requirements

Cable types:

- Umbilical components
- Rugged power/control cables
- Custom cable designs

Use cases

- Renewable energy infrastructure operating in demanding environments
- Installations where durability, routing, and service life are key concerns
- Projects requiring specification-driven builds and validation expectations

Our capabilities

- Engineered-to-requirement builds for specification-driven projects
- Design support for electrical, mechanical, and environmental needs
- Testing and validation aligned to performance expectations

Designed for real-world installation

Cable performance depends on how it is installed, routed, protected, and maintained over time. We help align cable construction to real-world conditions, so designs meet the expectations defined in the field.

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Custom Cable Designs

Every harsh environment brings a different set of requirements. Rochester Cable partners with customers to engineer cable solutions that align to real operating conditions—mechanical demands, environmental exposure, electrical performance, and operational continuity. Our in-house approach brings engineering, manufacturing, and validation together so customers can move from requirements to a buildable design with confidence.

How customization works



Consultation

Define operating conditions, constraints, and performance targets.



Design

Engineer construction, materials, and configuration to requirements.



Build

Manufacture with disciplined process control and quality focus.



Test & validate

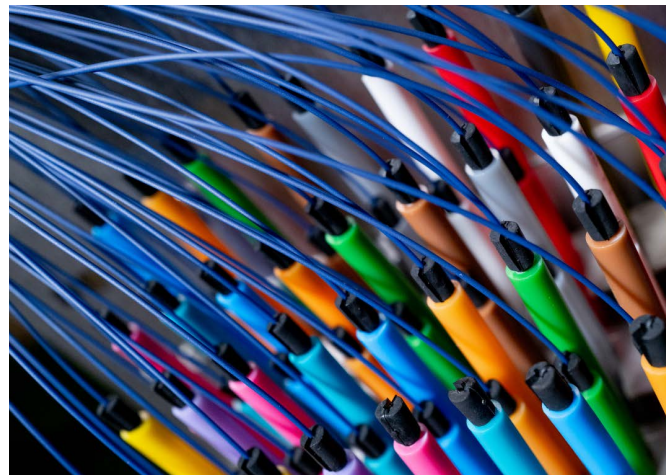
Confirm performance against expectations and requirements.

How we approach custom design

We turn real operating conditions into build decisions, selecting materials and construction features based on motion, pressure, abrasion, temperature exposure, and endurance targets.

Why customers choose a custom build

- **Reduce risk** by aligning construction to real service conditions
- **Improve reliability** where maintenance access is limited
- **Support demanding environments** with engineered durability
- **Avoid overbuilding** by making the right choices early



Construction Options

Custom design isn't one decision. It's a set of engineered choices that shape durability, reliability, and long-term performance. We help customers evaluate trade-offs and select construction features that align to the application's mechanical, electrical, and environmental requirements.

Electrical requirements

- High-speed data transmission rates
- Signal integrity for reliable communication
- Electromagnetic compatibility (EMC) compliance

Mechanical performance

- Weight optimization
- Length adaptability
- Hydrostatic pressure resistance
- Size precision
- High tensile strength

Environmental endurance

- Materials selected for abrasion, saltwater exposure, pressure, and temperature
- Jacket selection aligned to the operating environment
- Drag and tension endurance
- Durability for long-term performance

Testing and validation

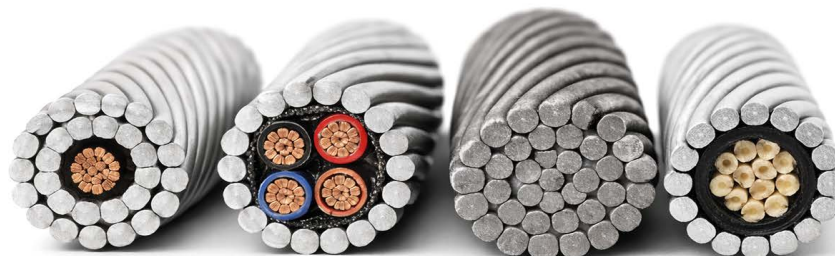
- Individual armor wire break
- Cable break load testing
- Torque, rotation, and elongation
- Cyclic bend-over-sheave

Armor packages

- Synthetic armor for lightweight flexibility
- Steel-wire armor for maximum strength
- Alloy-wire armor for specialized applications

Cable construction

- **Configurations:** Power, signal, coaxial, fiber optic, composite
- **Fiber packages:** Fiber-In-Steel Tube, STEEL-LIGHT™, ELECTRO-LIGHT™
- **Conductor styles:** Standard wall design, SPEC 44 Technology





Built for the challenge

Harsh environments leave little room for error. Rochester Cable engineers and manufactures cable solutions built for real service conditions, so performance holds up when access is limited, and reliability matters most. Our in-house approach connects design, build, and validation to reduce surprises and improve long-term confidence.

Bring us your requirements, constraints, or even a partial specification, and we'll help shape the right solution.

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Taming harsh environments

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Rochester Cable designs and manufactures custom cables for harsh environments. With a history dating back to 1794, and as one of the oldest manufacturers in the United States, we deliver reliable solutions for oil and gas, oceanographic research, defense, and industrial applications. As part of Hexatronic Group, we combine legacy expertise with global innovation to support customers worldwide.

Let's build the right solution

Connect with our team to confirm requirements and recommended constructions for your application.

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