



Solutions for Offshore and Commercial Marine



TAME A HARSH TOPSIDE ENVIRONMENT

An Expansive Line of Solutions for Offshore and Marine

- AC/DC Relays and Contactors
- Adapters
- Cable Management and Harnessing
- Data Bus Cable, Connectors, Splitters
- Identification and Labeling
- Mid-Range Relays
- Molded Parts
- Motor-Driven Relays
- Rugged Optics
- Signal and Power Connectors
- Subsea Cable
- Terminals and Splices
- Topside Marine Wire and Cable
- Tubing

Designed, Built, and Tested for Extreme Performance in Extreme Environments

Tyco Electronics helps you boost performance and increase reliability in one of the toughest application environments on Earth, whether it's corrosive salt spray on a wind-swept oil rig, the incredible hydrostatic pressures on umbilical cable on a 6000 foot dive of a remotely operated vehicle (ROV), or the relentless drive to

save space and weight even as you increase performance. Offshore equipment must operate safely and reliably 24/7/365 under harsh conditions. Downtime is expensive, failures can be dangerous, and repairs can be difficult. At Tyco Electronics we are addressing the key issues in making offshore facilities more productive, reliable and safe.

Key Benefits

- Fire-hazard reduction
- Space constraints
- Weight constraints
- Electromagnetic interference (EMI) protection
- Environmental toughness
- Mechanical reliability
- Flexibility
- Workability in stripping, soldering, and bonding
- Power management



C-LITE FR CABLES



SeaLAN CABLE



OPTICAL CONNECTIVITY

C-Lite FR cables are not only up to 50% smaller in size, but possess flame-resistant properties to maintain circuit integrity in a fire at temperatures to 1000°C.

Our Raychem brand waterblocked and non-waterblocked Ethernet cables are qualified to meet rigorous requirements of flammability, smoke emissions and halogen content. Waterblocked constructions meet severe waterblocking and humidity resistance requirements.

Our broad electro-optic capabilities in cable and interconnections include expanded-beam connectors that give unparalleled performance in rough and dirty environments. You'll also find an extensive line of best-of-brand, industry-standard connectors and cables in configurations to withstand any offshore hazard.



Count on the Benefits of Our Thin-Wall Technology

Size Reduction

- Lighter Supports
- Smaller Glands
- Improved Static and Dynamic Bend Radius
- More Efficient Use of Cable Trays
- Optimized Cable Routing
- Easier Installation Handling

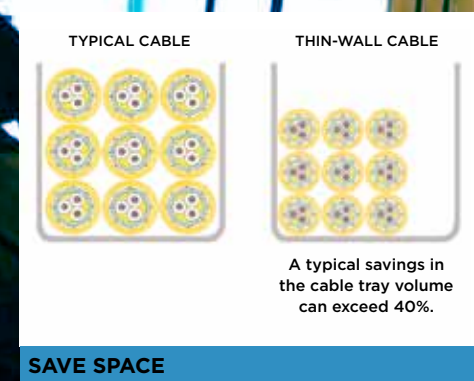
Weight Reduction

- Lower Deck Loads
- Better Fuel Efficiency

Flexible Integration

- More Power in a Fixed Space
- Non-Melting Insulation

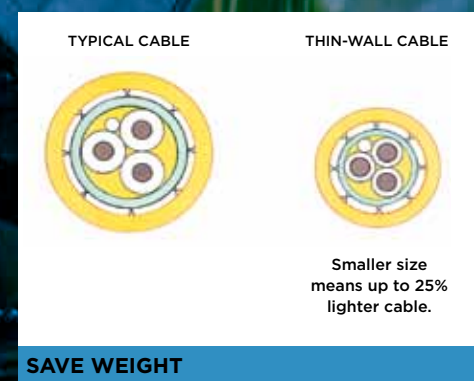
DO MORE WITH LESS: HIGH-TEMPERATURE, THIN-WALL TECHNOLOGY



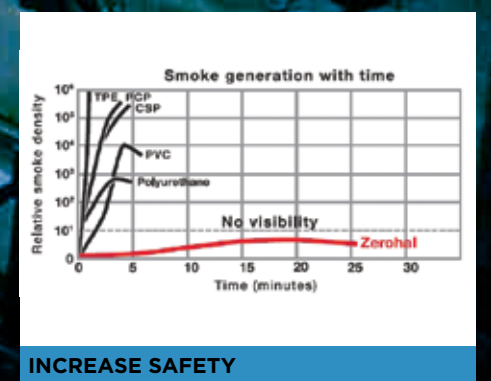
SAVE SPACE



SAVE MONEY



SAVE WEIGHT



INCREASE SAFETY

Increasing Safety

We lead the industry in the application of thin-wall insulation and jacketing to cables. You gain significant savings in space and weight without sacrificing mechanical reliability and strength or thermal stability. Plus, smaller cables have tighter bend radii for more flexible routing and efficient use of cable trays.

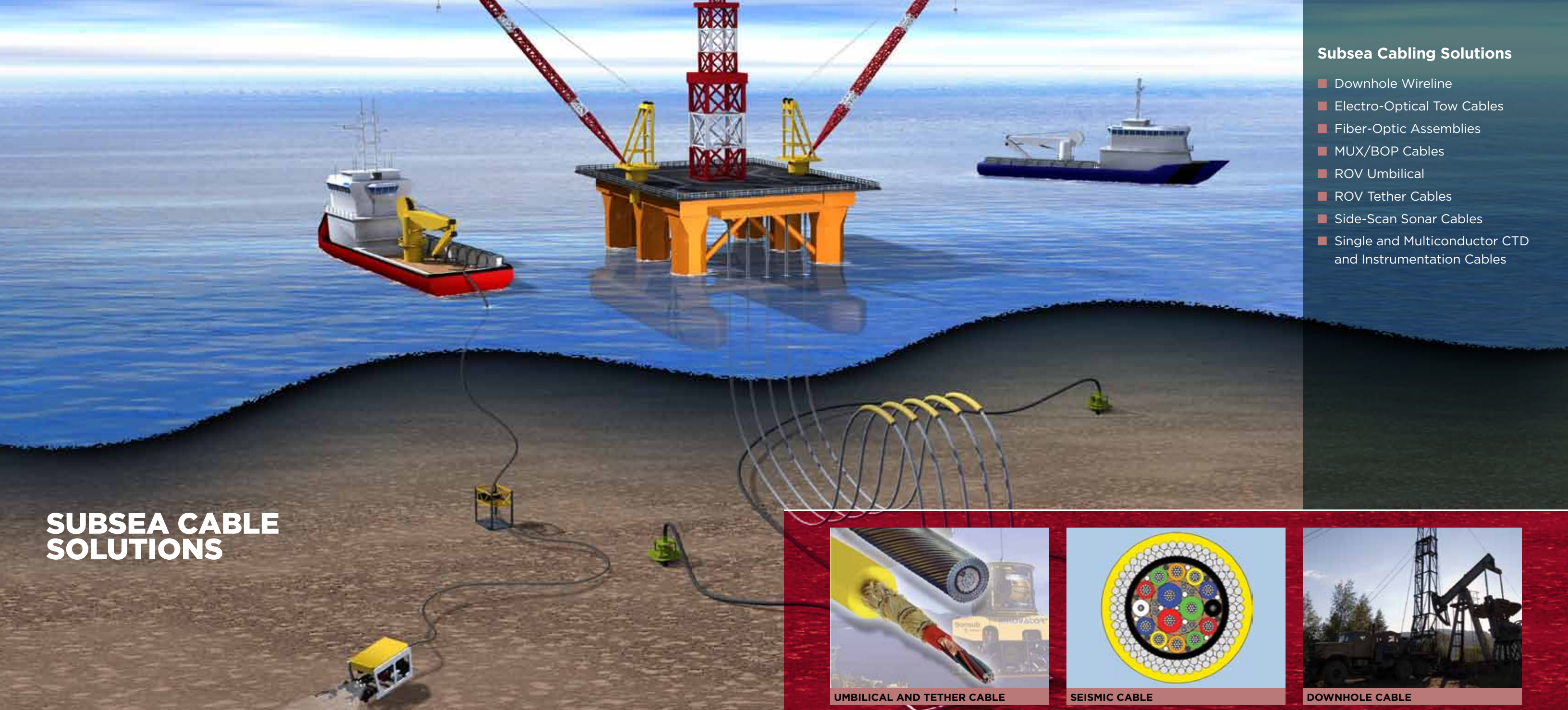
Inherently inflammable products, oil drilling and refining platforms are potential fire hazards. We help increase safety of personnel and protection of equipment with low-fire-hazard, low-smoke, zero-halogen cables that minimize toxic and corrosive gases.

Tyco Electronics' thin-wall technology can save as much as 40% in cable trays. Such savings result in smaller trays, more cables per tray, lighter supports, and smaller cable glands. And higher temperature ratings mean higher current densities, increased safety and long-term reliability.

Tyco Electronics' thin-wall technology reduces installed costs up to 15%. Not only do the reduced size and weight make installation faster and easier, you realize additional savings in smaller, lighter trays, racks, and other cable management hardware. What's more, resistance to hot diesel fuels, oils, grease, drilling fluids, and mechanical abuse means long-term reliability and lower maintenance costs.

With more than 475 km of cabling on a typical large offshore platform, there are potential savings of up to 105 tons topside by using C-Lite cable throughout the platform. When you include the weight savings from smaller cable glands, trays, and transits—total savings add up to approximately 165 tons.

Our thin-wall technology includes low-smoke and zero halogen wire and cable—which emit low levels of toxic gases and generate considerably lower levels of smoke so that visibility is maintained in an emergency.



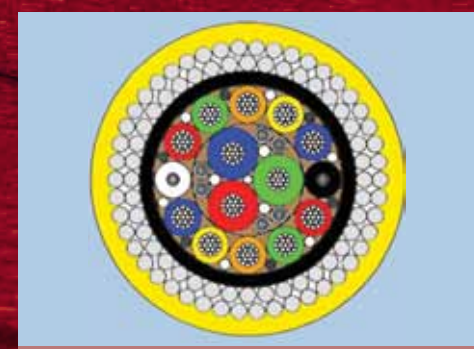
Subsea Cabling Solutions

- Downhole Wireline
- Electro-Optical Tow Cables
- Fiber-Optic Assemblies
- MUX/BOP Cables
- ROV Umbilical
- ROV Tether Cables
- Side-Scan Sonar Cables
- Single and Multiconductor CTD and Instrumentation Cables

SUBSEA CABLE SOLUTIONS



UMBILICAL AND TETHER CABLE



SEISMIC CABLE



DOWNHOLE CABLE

From Rig Mast to Sea Bottom

We offer standard and custom umbilical and tether cables for ROVs with an expertise in matching dynamic mechanical needs with electrical power, control, and instrumentation requirements. Our innovations in thin-wall cables, armoring, buoyancy, and other critical parameters mean smaller, lighter cables—by 15% to 30%—that allow

longer lengths on your current winching equipment. Count on Tyco Electronics for wide-ranging interconnection solutions. We speak your language, have wide and deep experience solving the tough problems in offshore exploration and production, and work closely with customers to ensure the best solution.

See Our Full Product Lineup

For additional products for the Offshore and Commercial Marine Markets, visit our internet site at: www.tycoelectronics.com/ADM and select Offshore/Civil Marine from the Market Solutions Gallery.

Heavy-lift umbilical cables, neutrally buoyant tether cables, and heavy tether cables are available for all lifting applications in offshore and marine environments. The integration of our thin-wall technology offers reduced weight and diameter to allow longer lengths on current handling equipment, or greater power capability in a fixed cable size.

We offer state-of-the-art seismic streamer lead-in, sensor, and VSP cables for both towed and static systems. We have the ability to produce high-data-rate capability cores in rugged, high-strength, custom-designed armor packages.

Our rugged downhole cables are designed to provide telemetry, control and power connectivity while withstanding elevated temperatures, high pressures and corrosive environments. Noncorrosive metal cladding and waterblocking agents ensure cables remain isolated from hazardous well gases and fluids.

FOR MORE INFORMATION

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