

Tyco Telecommunications : A History of Expertise, the Fleet of the 21st Century

Tyco Telecommunications has enhanced their fleet through the addition of six "Reliance Class" vessels. These ships form the foundation of the Tyco Telecommunications Fleet - the most versatile and capable ships in the industry.



The heart of the Tyco Telecommunications cable ship fleet are the six "Reliance Class" vessels. Specifically designed and constructed for cable maintenance and construction, these ships are the most versatile and capable cable ships in the industry.

At 140 meters in length, these powerful, dynamically positioned vessels are capable of sustained cable operations in harsh weather conditions. Each vessel is typically outfitted with a Perry Tritech ST200 series remotely operated vehicle and either 1.5 meter or 3 meter capable seaplow. VSAT communications equipment ensures that broadband connectivity is available to her crew while the vessel is deployed. The unique arrangement of twin cable drums and a Linear Cable Engine provides redundancy and flexibility to install and repair any existing cable system.

Our crews are comprised of highly trained and experienced Merchant Mariners, Submersible Engineers and Cable Operations Staff. In addition to typical cable construction and maintenance activities, these ships provide excellent platforms for Trenching, Mattressing, and Salvage operations.

Vessel Particulars

Years Built	2001-2003
Range	25,000 nautical miles or 60 days
Accommodations	80 personnel
Service Speed	14 knots
Length Overall	140.0 m
Molded Beam	21.0 m
Deep Draft	8.4 m
Gross Registered Tonnage	12,184
Deadweight	9,200 MT; 9,056 LT
Classification	(ABS)+ACCU, +AMS, +DPS-2, NBLES, UWILD

Capacities

Cable Capacity	5,465.5 MT – Total for 3 tanks
Rope Tank Capacity	107.0 MT
Fresh Water	440.5 MT
Fuel Oil	3,242.9 MT
Water Ballast	4,403.0 MT
Automation Control	S.V.C.
Software Tools	WinFrog, Makai

Propulsion & Maneuvering Equipment

Type	Diesel Electric
Main Engines	5 x KRGB-9 Bergen 1990 kW each
Forward Bow Thruster	1 x Ulstein - 1700 kW/ 0-900 RPM
Aft Bow Thruster	1 x Ulstein - 1700 kW/ 0-1800 RPM
Azimuthing Stern Thrusters	2 x Ulstein - 3100 kW/ 0-720 RPM
Dynamic Positioning	Kongsberg Simrad SDP 21 DP System

Cable Handling Equipment

Stern Linear Cable Engine	1 x ODIM, 20 wheel pair, 16 ton capacity
Stern Drum Cable Engines	2 x Kley France (ODIM), 4 m diameter, 30 ton lifting capacity
Dynamometers	WAMAC roller type and Load Cells
Draw Off / Hold Back	2 x ODIM, 4 wheel pair, 4 ton capacity
Stern Sheaves	3 x 3.5 m diameter
After Deck Cranes	2 x 10 ton SWL
Mobile Cable Transporters	3 x 1.5 tons (T-2000)

Cable Burial & Inspection Tools

ROV	Perry Tritech - Triton ST200 Series SMD-Nereus
Sea Plow	EB3 / SMD MD3

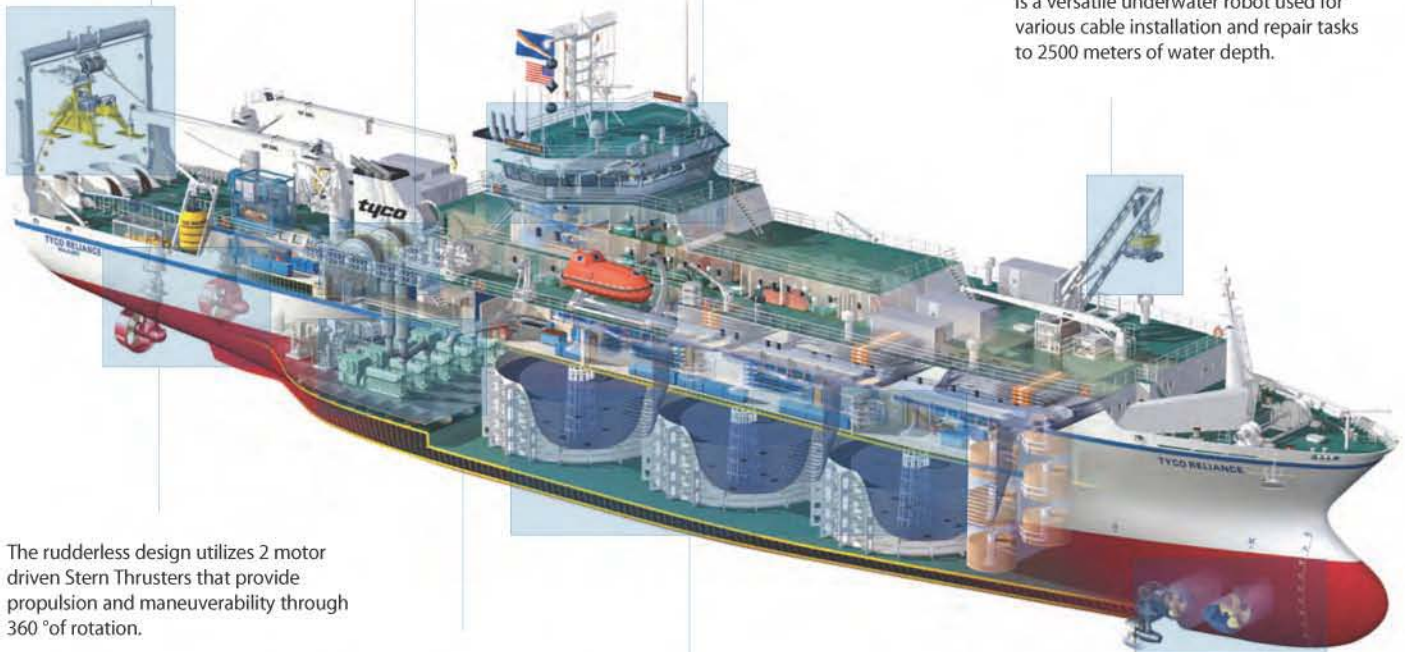
Reliance Class Vessels feature state-of-the-art innovative technologies

The 65 ton universal A-Frame is used to maneuver various Sea Plows that are able to bury cable up to 3 meters safely below the ocean floor.

Cable handling machinery includes two 30 Ton Cable Drums and a 20 wheel pair linear cable engine.

The State-Of-The Art Bridge houses the latest technology in navigation, DP (Dynamic Positioning) and communication.

The ROV (Remotely Operated Vehicle) is a versatile underwater robot used for various cable installation and repair tasks to 2500 meters of water depth.



The rudderless design utilizes 2 motor driven Stern Thrusters that provide propulsion and maneuverability through 360 °of rotation.

The 5 Main Diesel Engine Generators provide enough electrical power to the motors to propel the ship at service speeds of 14 Knots.

The 3 Main Cable Tanks can hold in excess of 5000 Tons of cable - enough to cross the Atlantic Ocean.

One of the 2 Bow Thrusters actually swings down and rotates 360° to provide maneuverability and station keeping during critical operations.

Our Reliance Class Fleet	
CS Tyco Reliance	CS Tyco Dependable
CS Tyco Responder	CS Tyco Decisive
CS Tyco Resolute	CS Tyco Durable

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