

Nexans



SHIPLINK®

Cable solutions and services
for safety and efficiency in ships



**10,500-TEU
Container ships**

PROJECT DESCRIPTION

- 10 vessels, owner: Hamburg Süd Group
- These carriers measure 332 m in length, 48.2 m in width and 26.8 m in depth.

CUSTOMER CHALLENGES

- With a slot capacity of 9,600 20-foot-equivalent units, they are the Group's largest vessels
- With 2,100 refrigeration plugs, they have the largest reefer capacity of any ship worldwide
- The builder wanted modern and efficient solutions that would guarantee the perennality of these ships.

NEXANS SOLUTIONS

- HIS halogen-free cables
- GL certification.





Future Frigate eXperimental

PROJECT DESCRIPTION

- The 2,300 tonne frigate, measuring 114 m long, 14 m wide and 25 m deep, can sail at 30 knots with a crew of 120
- Delivered to the Korean Navy in 2014.

CUSTOMER CHALLENGES

- Greatly improve overall capabilities compared to previous classes of frigates
- Highly compact, flexible and efficient cables which can handle complex Combat. Management and Information systems, including 3-D radar, anti-aircraft and anti-ship missiles, and sonar and torpedo counter measures.

NEXANS SOLUTIONS

- A variety of cables based on MIL DTL2460, 2463 and VG 95218 specifications
- Local production of MIL 24640 cables
- Korean Register (KR) certification for naval vessels.





Innovative offshore vessels for Arctic environment

PROJECT DESCRIPTION

- Two new offshore vessels manufactured by Asenav shipyard in Chile delivered to Maersk Supply Service
- The vessels will replace existing vessels in Canadian offshore market
- Dedicated to iceberg management, anchor handling, general support of drilling rigs, including essential supplies.

CUSTOMER CHALLENGES

- Set new standards for low emission levels
- Improve operational efficiency and uptime in the offshore industry in deepwater and harsh environments.

NEXANS SOLUTIONS

- MV power cables for backbone and propulsion systems
- New cable-dependent technologies achieved energy reduction of up to 25 %
- Intelligent solutions for new designs involving VFD power, ventilation and cooling.





155,000 cbm class LNG Carriers

PROJECT DESCRIPTION

- Two ice-class membrane-type LNG carriers, measuring 228 m in length, 44.2 m in width and 26 m in depth
- Both ships are powered by dual-fuel diesel engines, enabling operation on either natural gas or marine diesel oil.

CUSTOMER CHALLENGES

- Compact and efficient cables to link the four Wartsila-Hyundai diesel engines in each ship to power electric propulsion motors
- Compliance with Lloyd's Register's Ice-Class and Winterization Rules for operation under harsh Arctic conditions
- Environmental Protection 'ECO' notation.

NEXANS SOLUTIONS

- XLPE/SHF1 cables conforming to IEC Standard Specifications
- DNV certification
- Full Life Cycle Assessment (Cradle-to-Grave Analysis)
- Product Environmental Profile (PEP).





Benetti Classic Supreme 132 Mega-yacht

PROJECT DESCRIPTION

- Private yacht designed to deliver high levels of safety and comfort
- 40.20 meters long with 8.18 meters of maximum beam
- Innovative technology, integrating all onboard electronic systems: entertainment, home automation, communications and security.

CUSTOMER CHALLENGES

- High-performance cables with proven durability
- Reduced cost of installation in terms of time and ease
- Design-to-cost and on-time delivery.

NEXANS SOLUTIONS

- FLEXISHIP® range for the yacht market (small sections, Class 5)
- Fast-and-easy installation
- Just-in-time delivery, with pre-cuts as required
- RINA certification.





Eagle Texas, the world's first Modular Capture Vessel (MCV)

PROJECT DESCRIPTION

- MVCs operate as normal tankers, but could be deployed for containment services in the event of a deep-water incident
- Built by Drydocks World (Dubai) for Singapore based AET operating in the Gulf of Mexico.

CUSTOMER CHALLENGES

- A first-of-a-kind enhancement project to combine storage with containment
- Incorporate new and emerging technologies
- Enhance safety and efficiency.

NEXANS SOLUTIONS

- Complete turnkey provision of all vital cables, meeting specifications of oil-resistance, Halogen-Free Fire-Resistance, etc.
- 292 km of energy, lighting, instrumentation, communications and control cables were used in the project.
- Full Corporate Social Responsibility in keeping the environmental goals of shipbuilders and energy developers.





BP Quad 204 FPSO and Clair Ridge Platform P/J

PROJECT DESCRIPTION

- This 270-meter FPSO is designed to produce 130,000 barrels of oil and 2.2 million cubic meters of gas per day
- The Greater Clair Ridge Field is located 75 km west of Shetland. It extends over an area of 220 km² in water depths of approximately 140 m.

CUSTOMER CHALLENGES

- A new build replacement for the existing Schielhallion FPSO
- Designed to extend production in the greater Clair area through 2050, involving a capital investment of some \$7 b
- High-end design, construction and cabling to meet safety and environmental regulations for ships operating in the 17.5 meters swells or the North Sea.

NEXANS SOLUTIONS

- Halogen-Free Fire-Resistant (HFFR) and shock-, water-, and mud-resistant cables
- GL certification
- Full Corporate Social Responsibility in keeping the environmental goals of shipbuilders and energy developers.





Fincantieri's Viking Ocean Cruises ships with Safe Return to Port technology

PROJECT DESCRIPTION

- Four new Viking Ocean Cruises ships being constructed by Fincantieri
- 473-cabin ships have a gross tonnage of 48,000 tons.

CUSTOMER CHALLENGES

- Safe Return to Port (SRtP), introduced by the International Maritime Organization, specifies that critical systems and services must remain operational on passenger ships for at least three hours long enough for them to either make a safe return to port or evacuate the ship if a serious incident occurs
- The cables not only need to be fire resistant, they must also withstand both physical shock loads and the thermal shocks.

NEXANS SOLUTIONS

- 1,100 km of cables delivered
- Nexans developed advanced fire resistant SRtP (Safe return to Port) products for enhanced safety on board
- LRS certification.





Meyer Werft's Norwegian Escape cruise ship with a capacity of 4,200 passengers

PROJECT DESCRIPTION

- A new luxury cruise liner built by Meyer Werft in Germany
- The first ship in its class: Breakaway Plus
- Almost 326 m in length, with the capacity of 4,200 passengers and 2,100 cabins.

CUSTOMER CHALLENGES

- Stringent requirements for cruise vessels in terms of fire safety
- Has one more deck than previous ships, providing more entertainment for passengers.

NEXANS SOLUTIONS

- Low voltage power, instrumentation, control, and medium voltage power cables
- Designed with halogen-free materials that are fire retardant and release low levels smoke in case of a fire
- The cables are designed to last for the lifetime of the ship which is expected to be around 25 years
- 2,000 km of cables laid over 86 blocks
- DNV GL certification.



Contacts



A network of local experts in shipbuilding

A Group with an industrial presence in 40 countries and commercial activities worldwide

EUROPE

Europe: **Stéphane Mortelette**
stephane.mortelette@nexans.com

France, Spain, Portugal: **Vicente Delacruz**
vicente.delacruz@nexans.com

Germany, Netherlands: **Roel Van Der Zwet**
roel.van_der_zwet@nexans.com

Italy: **Valter Buttiglieri**
valter.buttiglieri@nexans.com

Netherlands: **Paul Borghouts**
paul.borghouts@nexans.com

Norway: **Tor Karlsen**
tor.karlsen@nexans.com

Russia: **Ruslan Sheykhov**
ruslan.sheykhov@nexans.com

Pologne: **Marcin Sasak**
marcin.sasak@nexans.com

NORTH AMERICA

Canada: **Wolff Labossière**
wolff.labossiere@nexans.com

U.S., Caribbean, Mexico,
Central America: **Jose A. Sanchez**
jose.a.sanchez@nexans.com

SOUTH AMERICA

Brazil: **Nelson Albano**
nelson.albano@nexans.com

ASIA PACIFIC

Australia: **Greg Stack**
greg.stack@nexans.com

China: **Patrick Zhang**
patrick.zhang@nexans.com

India: **Hemant Prabhakar**
hemant.prabhakar@nexans.com

Singapore, South East Asia: **Candy Teo**
candy.teo@nexans.com

South Korea, Japan: **Jong-Chul Shin**
jong-chul.shin@nexans.com




Global expert in cables
and cabling systems

For any further information, please contact:

marcom.info@nexans.com
or visit www.nexans.com/shiplink



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