



SHIPBUILDING & OFFSHORE

BRITAIN CASE STUDY

Background:

The North Sea, a marginal tract of the Atlantic Ocean located between Great Britain, Scandinavia, Germany, the Netherlands, Belgium and France has long been battered by the elements - and presents some of the harshest operating conditions for marine installations and products.

Location:

North Sea

Industry:

Shipbuilding & offshore

Challenges:

- Design, test and manufacture range of fire resistant cable joints in limited time frame
- Quick and easy installation

Solutions:

A wide range of fire resistant LV and MV joints for control, communications and power cables

Customer Advantage:

Specially engineered TE solutions are still in operation more than 40 years after installation

Challenge:

The average temperature in the North Sea during the summer months is 17°C while in winter, a season of frequent gales and storms, the average the average temperature is 6°C while salinity averages 34-35g of salt per liter of water. The North Sea is also prone to 'storm surges', an offshore rise of water associated with a low pressure weather system caused primarily by high winds pushing on the ocean's surface.

The early days of exploration and recovery of North Sea offshore oil in the 1970s called for exceptionally enduring products that would meet the exacting requirements of the companies operating in this harsh environment. A well-known, British oil and gas company, an early leader in the industry, was looking for high performance LV and MV joints and terminations for their innovatively constructed platforms.

The challenge for TE Connectivity was to design, test and manufacture a large number of fire resistant cable joints in a limited time that could be quickly and easily installed.

Solution:

With many years of expertise and experience in designing and supplying products for demanding environments, TE rose to the challenge. It implemented an accelerated development program to design, test and manufacture a range of rugged, high-performance and long-lasting products.

The program resulted in the development of a wide range of fire resistant LV and MV joints for control, communications and power cables that satisfied the customer's stringent specifications. The resilience and reliability of these specially engineered TE solutions is borne out by the fact that they are still in operation more than 40 years after they were installed!



Applications on four of North Sea platforms

TE Connectivity (NYSE: TEL) is a \$12 billion global technology leader. Our commitment to innovation enables advancements in transportation, industrial applications, medical technology, energy, data communications, and the home. TE's unmatched breadth of connectivity and sensor solutions, proven in the harshest of environments, helps build a safer, greener, smarter and more connected world. With 75,000 people – including more than 7,000 engineers – working alongside customers in nearly 150 countries, we help ensure that EVERY CONNECTION COUNTS – www.TE.com.

Generation

- Conventional Power
- Nuclear Power
- Wind/Solar
- Hydro-electric

Transmission & Distribution

- Substation
- Underground
- Overhead
- Street Lighting

Industry

- Mining
- Petrochemical
- Railway
- Shipbuilding

WHEREVER ELECTRICITY FLOWS, YOU'LL FIND TE ENERGY



te.com/energy

FOR MORE INFORMATION:

EMAIL: energyasia@te.com

TE Technical Support Centers

AMERICAS

USA/Canada: +1 (800) 327-6996
 Mexico: +52 0-55-1106-0800
 Brazil: +55 11-2103-6023
 South America: +57 1-319-8962

ASIA-PACIFIC

Australia: +61 29-554-2695
 New Zealand: +64 9-634-4580
 China: +86 (0) 400-820-6015

EUROPE-MIDDLE EAST-AFRICA

France: +33 (0) 38-058-3200
 Germany/Switzerland: +49 (0) 89-608-9903
 UK: +44 08708-707-500
 Spain/Portugal: +34 912-681-885
 Italy: +39 335-834-3453
 Benelux: +32 16-508-695
 Russia: +7 495-790 790 2-200
 Poland/Baltics: +48 224-576-753
 Czech Republic: +42 (0) 272-011-105
 Sweden/Norway: +46 850 725 000
 Middle East: +971 4-211-7020

te.com/energy

© 2017 TE Connectivity Ltd. family of companies. All Rights Reserved. EPP-2906-3/17

TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

