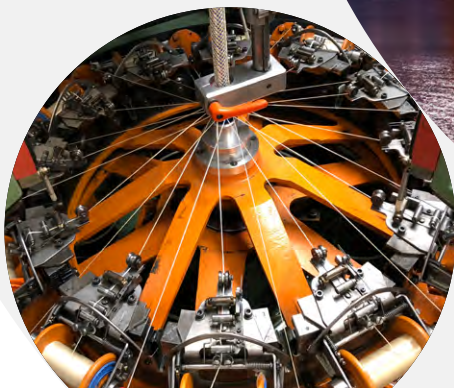


# CABLE SOLUTIONS

WORLDWIDE LTD

Flexible Solutions for Harsh Environments



Overview	02
Bespoke Cable Design	03
Cable Manufacturing	04
Quality of Service	05
<b>LOOPS</b>	<b>06</b>
Top Drive Service Loops	07
<b>CABLES</b>	<b>08</b>
Stock	09
Gexol®	10
NEK606	11
British Standard Offshore Cables	12
Marine Cables	13
Pre-Terminated Fibre Optic Assemblies	14
Fibre Optic and Data Cables	15
<b>ENCLOSURES</b>	<b>16</b>
Junction Boxes and Hazardous Area Enclosures	17
<b>PIPE &amp; CABLE</b>	<b>18</b>
RISE NOFIRNO® Pipe & Cable System	19
Core Values	20



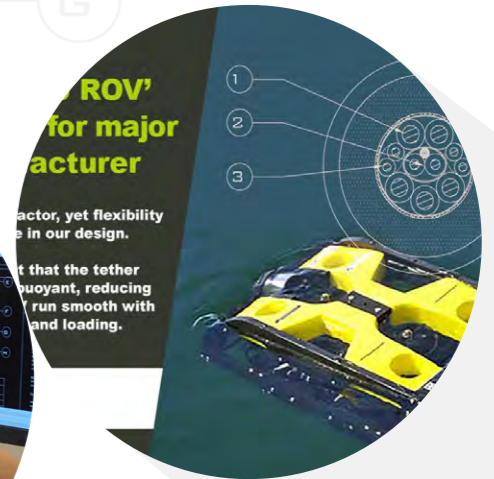
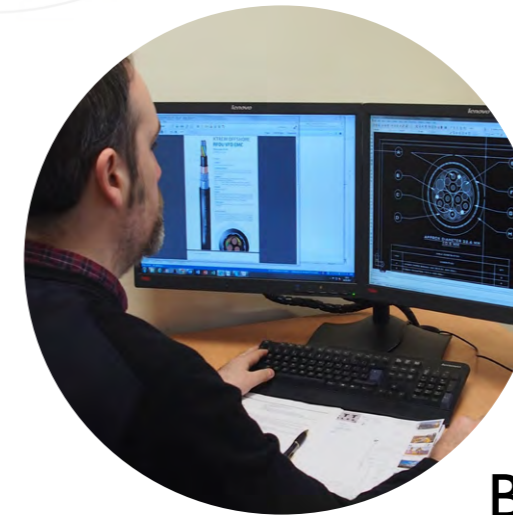
## Overview

Incorporated in 2003, Cable Solutions Worldwide has built up significant expertise and experience in cable design, manufacture, supply and project management for both topside and subsea applications.

We work closely with operators in key energy industries worldwide, concentrating on oil & gas, subsea, shipbuilding, and renewable energy.

Based in Aberdeen Scotland, with a nucleus of experienced industry professionals and a dedicated project team, we have been awarded many challenging projects throughout the world. Our cable solutions have crossed fjords and connected land, oil & gas installations and offshore wind farms.

To complement manufacturing, Cable Solutions hold exclusive distributorship with other leading cable manufacturers, providing European, Far-East, and US specified cable products from extensive global stock.



## Bespoke Cable Design

Cable Solutions Worldwide specialise in the design of customer specified harsh environment composite cables, umbilicals, tethers, and top drive service loops, providing a wide range of design configurations for the offshore energy, shipbuilding, and renewable energy industry.

We focus on innovative product design and solutions engineering, enabling us to supply the most suitable and robust cable for its intended environment and application.

Our proven range of subsea umbilical designs, combined with our expertise and knowledge of critical internal components, enables us to provide clients with bespoke solutions for an individual project.

- Neutrally buoyant
- Highly flexible
- Short MOQs
- Dynamic applications
- Hybrid cable designs



## Cable Manufacturing

To complement our cable design service, we manufacture bespoke cable for the oil & gas, subsea, shipbuilding and renewable energy industry. We support many industry assets including drilling platforms, jack-up rigs, semi-submersible rigs, and land rigs, subsea installations and ROVs, FPSOs and support vessels, wind and tidal energy farms.

Cable Solutions Worldwide understand the challenges and intricacies of topside and subsea communications. We work closely with customers to observe the demands of harsh remote environments and focus on cable characteristics including temperature, pressure, strength, depth and other criteria necessary to design and manufacture a cable that delivers superior results.

Whether your bespoke cable requirement needs to be hi-flex, armoured, improved signal speed, deep-sea, flame retardant or hi-temperature rated, our knowledge and experience in cable manufacturing and materials enables us to deliver an efficient and cost-effective solution.

- Low MOQs
- Fast turnaround
- Fully accredited supply chain
- High quality
- Flexible products



## Quality of Service

Cable Solutions Worldwide are known throughout the world for their speed of service and professional customer support. When a client is requesting something that's time-sensitive, our team pulls together and takes on the challenge.

Going the extra mile for our clients is also a major factor in retaining a quality service. We think long term when dealing with customers, we give the same effort to small and large projects, and maintain the philosophy that our last job must be a measure of our commitment and success.

Clients can be confident that we are dedicated to supplying a high standard of service. ISO 9001:2015 QMS is only awarded to those companies that are able to demonstrate a commitment to the highest standards. We are aligned to consistently provide a high standard of service within regulatory guidelines.

# LOOPS

In today's drilling climate where cost savings and greater productivity are required to stay in business, a service loop package that far exceeds the normal expected service life of a hose encased loop, helps the operator be more productive and profitable.

- OEM product
- Extended service/field life
- Competitively priced
- Fully potted loops
- Short lead times

## Top Drive Service Loops

In partnership with Nexans AmerCable, Cable Solutions Worldwide supply OEM quality top drive service loops to the global oil & gas industry. Our quality top drive service loops offer significant cost savings and reduced lead time.

We are the main distributor in the UK, Europe, and Scandinavia for AmerCable Top Drive Service Loops. The Cable Solutions - Nexans AmerCable partnership delivers reliable on-time delivery, outstanding engineering and technical support, and 24/7 customer service.

Drilling platform, semi-submersible, jack-up, and land rig top drive service loops are designed, engineered and manufactured at the Nexans AmerCable's state-of-the-art production facilities in the USA.



# CABLES

Stock

Gexol®

NEK606

British Standard Offshore Cables

Marine Cables

Pre-Terminated Fibre Optic Assemblies

Fibre Optic and Data Cables

Cable Solutions Worldwide stock cables for a wide range of topside and subsea applications including projects for oil platforms, accommodation platforms, rigs, marine vessels, subsea installations, and renewable energy farms.



## Stock Cables

Cable Solutions Worldwide hold in stock a comprehensive range of different cable at its facility in Aberdeenshire, supporting the oil & gas, subsea, shipbuilding and renewable energy industry with a responsive local and international service. The stock cable is cut to length, spooled and fast-tracked to global destinations.

- Class 5 flexible inventory
- Fast turnaround
- Comprehensive range
- Major brands
- Any length supplied



## Gexol®

Offshore cables are subjected to many integrity demands including heat, cold, salt corrosion, drilling mud, vibration, and mechanical stress. Gexol® insulated cables are designed and manufactured for safe and reliable performance in harsh offshore operating conditions.

These cables are incredibly tough, flexible and durable, and prove their value daily in the challenging operating environments of offshore drilling and petroleum facilities around the world.

Gexol® cables offer a high ampacity rating and have superior dielectric properties. They exceed cold bend and cold impact ranges (-40°C/-35°C), are drilling mud and oil resistant, and are extremely flexible for easy handling and installation.

*“Gexol® - incredibly tough, flexible and durable, designed for harsh drilling environments”*

## NEK606

Cable Solutions is the UK's largest stockist of NEK606 cables. These cables are designed primarily for power, control, instrumentation and signalling for use in the offshore oil and gas, shipbuilding and marine industries in compliance with worldwide standards.

The range of NEK606 cables including QFCI optical fibre cables are both DNV certified and ABS approved. These cables are manufactured with a low smoke, halogen-free outer sheath, fire resistant to IEC60331, and specially designed for use in communication and emergency systems that need to operate during a fire. NEK606 cables are ideal for many different applications including PA/GA Systems, DP and ESD Systems, Security Systems and PLC Control Systems.

- All Class 5 flexible and mud resistant
- Large stockholding of power, control and instrumentation
- Quality products
- Low MOQs and lead times on MMV and HV types
- Latest NEK standards



## British Standard Offshore Cables

BS6883 - BS7917 - BS5308

British Standard offshore cables are commonly used for offshore safety and emergency lighting, shut down and control systems, communication systems, fire systems, gas detectors, and alarm systems.

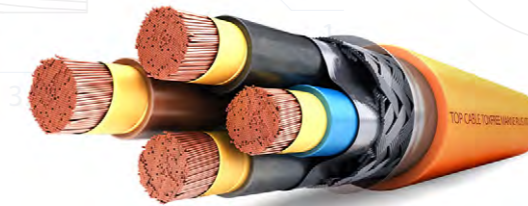
In general, BS6883 cables are used where life may be endangered by smoke and noxious fumes, and where sensitive equipment may be damaged by acid-forming gases.

Cables manufactured in accordance with British Standard BS7917 are designed for use in the fixed wiring in ships, vessels and offshore rigs, where under fire conditions circuit integrity is required.

BS5308 cables are specifically used on intrinsically safe circuits and are available in Polyethylene (PE), Polyvinyl Chloride (PVC), Low Smoke Zero Halogen (LSZH), Cross-Linked Polyethylene (XLPE), and steel armoured.

We hold in stock the full range of compliant British Standard BS6883, BS7917 and BS5308 cables.

- Class 5 flexibility
- Lloyds approval
- Low MOQ's and lead times on MMV and HV types
- Comprehensive range
- Quality products



## Marine Cables

Cable Solutions Worldwide supply a full range of flame retardant and fire resistant marine cables. Marine halogen-free cables are suitable for marine installations where fire, smoke emission, and toxic fumes create a potential threat. These cables have been specifically designed according to IEC applicable standards in order to comply with the requirements for marine installations in terms of construction, material, and performance. Our cables carry the approvals of leading certifying bodies in the maritime industry.

Our marine cables are available armoured and unarmoured and according to the fire performances, flame and fire retardant - fire resistant. A choice of materials and construction ensures that the cables are resistant to vibration and to most chemicals and hydrocarbons. In the event of a fire, these marine cables do not emit toxic gases, nor do they give off corrosive gases, avoiding any possible damage to people or electronic equipment. Personal safety is a top priority.

- Class 5 flexibility
- Multi 3rd party approvals
- Competitively priced
- IEC60092 standard
- SHF1 or SHF2 sheathing





## Fibre Optic and Data Cables

Cable Solutions energy projects have covered a wide range of topside and subsea applications. Our cables are transmitting scientific data from remote areas around the world, taking part in offshore communications between oil platforms, accommodation platforms, rigs, vessels, subsea installations such as manifolds and wellhead towers, renewable energy wind farms, and even provided broadband signal to remote harsh areas. In contrast to most types of electrical cables, fibre optic data cables use light instead of electricity to transmit signals. This is the fastest method of transmitting data and has the advantage of not being subject to electrical interference.

As the need for more sophisticated fibre optic applications develop, we remain on the leading edge in the design, manufacture, and supply of fibre optic subsea cables, umbilicals and tethers, using different optical fibres, alloys and outer encapsulation material for robust applications. We offer a comprehensive range of fibre optic and data cable options including single-mode, multi-mode, tight-buffered, loose tube, steel tube, plastic tube and ruggedised for the most demanding offshore environment.

### Pre-Terminated Fibre Optic Assemblies

Cable Solutions Worldwide supply pre-terminated fibre optic assemblies for the most demanding onshore and offshore environments. Pre-terminated fibre optic versions with any combination of cores or armouring arrangements can be supplied and delivered quickly to any region worldwide. Assemblies can be made to any length with full protection to ensure operational durability and integrity.

We hold pre-terminated fibre optic assemblies in stock for quick delivery. Configurations are offered with the option of a galvanised steel wire braid, and a choice of either a standard LSOH jacket or a mud resistant LSOH polyurethane jacket.

Our fibre optic cables are stocked in either 4, 8, 12, 24 or 48 fibre configurations and the diameter of the cable remains the same whichever one you select. We also supply patch panels to suit, loaded or blank, including a full range of SC and ST type connectors and the relevant test equipment.

- Single-mode
- Multi-mode
- Mud resistant sheath
- Quick turnaround
- ST, SC, LC connectors





# ENCLOSURES

Manufactured to your specific requirements in mild steel, stainless steel, aluminium and glass-reinforced polyester.

Designed and manufactured to the latest European standards and available in a wide range of sizes.

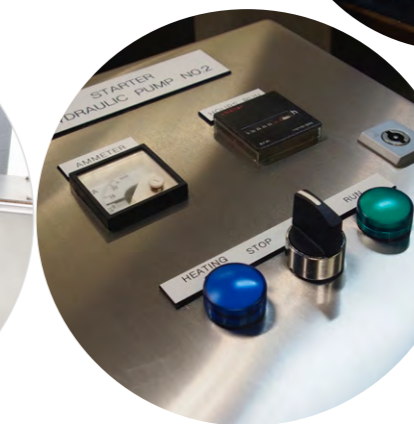
- In-house certified
- Certified hole punching
- ATEX certified boxes populated or unpopulated
- Wide range in stock, fast turnaround
- EXE & EXD
- GRP & S/S



## Junction Boxes & Hazardous Area Enclosures

Cable Solutions Worldwide can design, manufacture and supply purpose-built topside and IP68 underwater enclosures in a comprehensive range of sizes and materials, and to your specific bespoke requirements. We have supplied junction boxes and enclosures for most onshore and offshore hazardous area applications, including permanent submersion enclosures for use in up to 300 metres of water depth.

Our enclosures are used for many industrial applications. Typically they are used on offshore drilling platforms, rigs, vessels, ROVs, subsea assets, water treatment plants, pumping systems, harbours, reservoirs, in rivers and on flood plains.

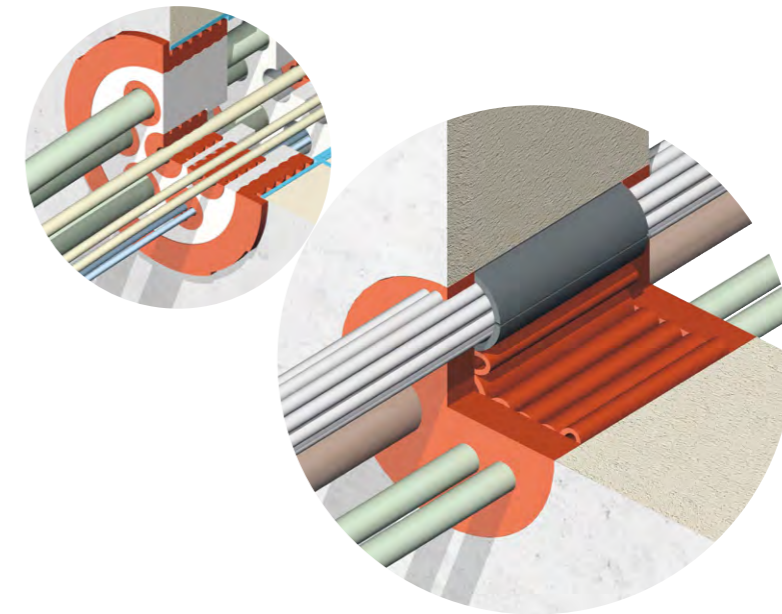


*Cable Solutions Worldwide supply the full range of CE-TEK junction boxes and enclosures.*

# PIPE PENETRATION & MULTI-CABLE TRANSIT SEALING SYSTEM

RISE/NOFIRNO® is not only robust, but it's also simple to install for maximum protection against fire, water and gas.

- A0, A60 & H0, H120 certified
- Immediately air, gas and watertight after installation
- Zero halogen, ozone, and weathering resistant
- Standard operating temperature of 180 degrees
- 50% more usable space



## RISE NOFIRNO® Pipe & Cable System

Cable Solutions supplies the RISE NOFIRNO® Pipe Penetration System and Multi-Cable Transit Sealing System to various industries including oil & gas, subsea, shipbuilding, and renewable energy.

Based on revolutionary technology, RISE NOFIRNO® offers the ultimate flexibility for sealing cable and pipe penetrations. The system is made up using two components, a rubber insert sleeve, and the NOFIRNO® Sealant, which provides the fire, water and gas protection.





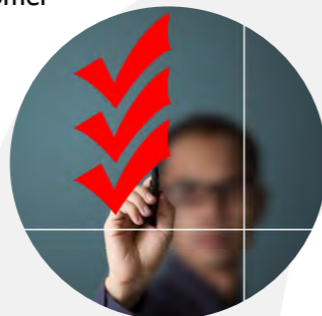
## Core Values

**People** – Our people are the heart of our success - we recognise the value of our people - we provide our people with a safe working environment - we encourage personal development and mental health well-being.

**Relationships** – We listen to our customers and suppliers, and build relationships that are sustainable and professional - we manage, develop and apply ourselves - we prioritise the hiring and development of local people, and work with local supply chains where we can.

**Performance** – We embrace teamwork, individual success and high standards of service - we encourage the delivery of excellent quality customer care.

**Our Planet** – We are committed to reducing the impact of our footprint on the environment - we conserve resources, reduce waste and emissions, and prevent pollution - we work with our customers to provide the most efficient environmental solutions.





## **Cable Solutions Worldwide Ltd**

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