

# Solutions for the Oil & Gas Industry



## Expect High Performance<sup>®</sup>

Amphenol TPC Wire & Cable is a leading supplier of high-performance wire, cable, connectors, and assemblies designed and engineered to withstand harsh industrial environments. We know how critical it is that your cables and connectors be able to survive abuse from caustic chemicals, extreme temperatures, continuous flexing, impact, and abrasion. Our products help solve the most difficult application problems by reducing your downtime, labor, overall costs, and long-outlasting commodity cable.

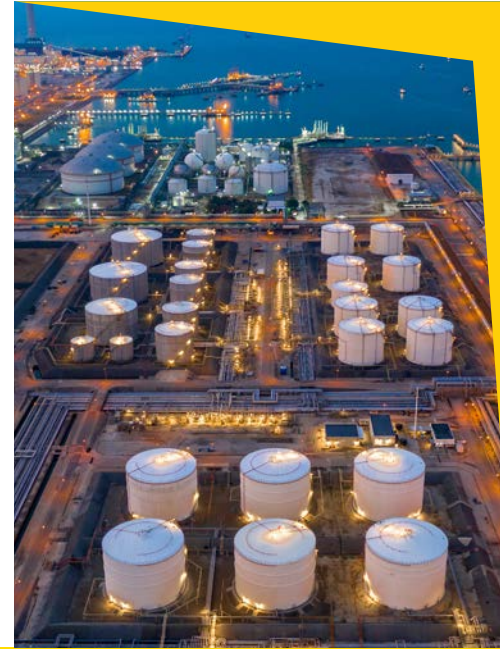
- ✓ Wire & Cable
- ✓ Cable Assemblies
- ✓ Cable Management
- ✓ Cordsets
- ✓ Electrical Components
- ✓ Custom Solutions



## Specialized Oil & Gas Solutions

The oil and gas industry faces harsh conditions both upstream and downstream in the exploration, production, refinement, and distribution of oil and gas. Throughout the drilling process, it is imperative to consider the unforgiving nature of the environment and its potential impact on equipment. Equipment is constantly subjected to harsh weather and drilling conditions, which require resilient materials and maintenance protocols. Furthermore, it is crucial to account for the challenging and hazardous conditions downstream in refineries and manufacturing, where extreme temperatures and chemicals can quickly compromise safety and equipment functionality. At Amphenol TPC Wire and Cable, we offer an extensive range of durable and reliable cable products that are specifically designed to withstand the demanding conditions found in these areas.

Our **Thermo-Trex®**, **Chem-Gard®**, **Vulko-Wrap™**, and **Custom products** are engineered for high heat, chemicals and abrasion making them ideal for various applications within the Oil & Gas industry. Whether it's on equipment at drilling rigs or inside refining and manufacturing, Amphenol TPC wire and cables have an industry-leading life expectancy that saves time, labor, and overall cost of ownership.



## Featured Products

Scan the QR codes to view more product information, including full list of ratings, features and benefits.

Upstream



### Mil-Spec MIL-C-5015 Assemblies

**Excels in** Top Drive Pipe Handling  
Cable Drag Chain Applications  
Top Drive Controls & Sensors Skidding Systems



### Molded Power Splitters

**Excels in** Top Drive



### Thermo-Trex® Flare Stack Cable

**Excels in** Flare Stack Igniter  
Flare Pilot Ignition Curing Systems  
Fuel Igniters Glass Fabrication Equip.

Downstream



### Chem-Gard® 200 TC Rated Cable

**Excels in** Control & Instrumentation  
Lighting Signals Tray Cable



### Thermo-Trex® Thermocouple Extension Wire

**Excels in** Type JX Type KX  
Type RSX Thermo-Couple Extension Grade



### Vulko-Wrap™ Self-Vulcanizing Insulating Wrap

**Excels in** Motor Leads Fusing  
Splicing Applications in Harsh Environments and Exposures Cable Insulation

## Case Study

# Top Drive Unit Cable Failures Trouble Century-Old Global Leader in Horizontal Drilling

## Customer Problem

A 100-year-old global market leader in horizontal drilling was experiencing frequent control cable failures on their top drive unit. It was being exposed to flexing, twisting, abrasion as well as exposure to fluids and extreme weather conditions. The cables being used were not performing and failing constantly which led to unwanted downtime.

## Amphenol TPC Wire & Cable Solution

This customer replaced 185 feet of cable in a top drive application with Amphenol TPC's **Super-Trex® 16/25 Reduced Diameter Control Cable**. This control and instrumentation cable is designed for industrial applications that require continuous flexing and has a TPE jacket that provides defense against abrasion and chemicals.



## Result

The customer saved \$2,448.80 in material and labor costs by switching to Amphenol TPC cable as well as saving 100 hours in labor. If they had continued with the previous cable, they would have changed out the cable 3 times, but using ATPC cable allowed them to continue production for 15 straight months without failure.



# \$2,448

Material Cost & Labor Savings



# 100 Hours

Downtime Saved

Results from 15 Month Time Period

## We've Got You Covered

Amphenol TPC provides high-performance cables engineered with cost-saving durability designed for use in a number of industry-specific applications.

### Upstream Equipment, Drilling Rigs, Exploration and Production

- Top Drive
- Iron Roughneck
- Pipe Handling Systems
- Catwalk Machines
- Stand Transfer Vehicles
- Skid Crane
- BOP Maintenance Cranes
- Mud Pumps
- Rig Controls and Sensors
- Drilling Control Systems
- Skidding Systems
- Shakers
- Variable Frequency Drive Systems

- Power Control Rooms
- Rig Safety and Lighting
- Welding and Maintenance Equipment
- Level, Trip Tank, Mud Flow, and Further Sensors

### Downstream Process Controls, Refining, and Manufacturing

- Liquid Processing Equipment
- Vacuum Dryers
- Agitated Filters
- Solid Mixers
- Pumps
- Compressors

- Process Controls
- PLC
- Lighting, Hazardous Location Lighting
- Coker Cranes
- Material Handling Cranes
- Single Leg Gantry Cranes
- Automated Loading Arms
- Train Positioners
- Railcar Loading/Unloading
- Flare Stacks
- Soot Blowers
- Temporary Power Systems



Learn More

## “ Super-Trex®

We also now exclusively use Super-Trex® for all of the AC devices on the rig (lighting, heaters, control room power, etc.) It costs more than regular SOO or SOOW, but we know the cable will survive the environment. In many instances, the increased cost is offset because we can often eliminate the sealtite and conduit as well.

Al Creely  
Senior Control Engineer  
Schramm, Inc.

## Custom Solutions Engineered For You

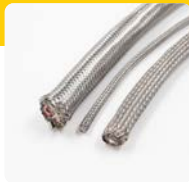


## Custom Designed to Meet Your Needs

If your industrial operation requires a unique solution, Amphenol TPC offers custom-engineered products **designed to your specifications**. These product solutions represent a unique and valuable service offered by Amphenol TPC to save you time and money. Our engineers are focused on providing the best solutions, through tested electrical, mechanical, and industrial engineering experience. There is no job that our team can't tackle. Our engineering team is ready to design a custom solution for you!



Custom Wire & Cable



Stainless Steel Braid Sleeving



Cordsets



Cable Assemblies



Custom Cable Carrier Systems



Custom Storage & Trailers



Cables Reels & Enclosures

→ For more Custom Solutions, please visit [tpcwire.com](http://tpcwire.com)



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