

Solutions for the Shipyard & Marine Industries



Expect High Performance[®]

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 Solutions for the Shipyard and Marine Industries

The Shipyard and Marine Industries are exposed to various factors that can damage cables, including moisture, extreme temperatures, corrosive materials, and heavy loads. At Amphenol TPC, we offer an extensive range of durable and reliable cable products that are specifically designed to withstand these demanding conditions.

Our **Super-Trex® products** are engineered to be abrasion and temperature-resistant, making them ideal for various applications within the shipyard. Our flexible yet durable weld and shore power assemblies stand apart from all other products on the market in their ability to resist moisture, weather, and general hazards associated with shipyards. Whether it's in docks, berthing stations, or power supply our cables and accessories are truly reusable products with an industry-leading life expectancy that saves time, labor, and overall cost of ownership while supporting safety initiatives.



Featured Products

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



Super-Trex® 600V Welding Cable

600V Max Conductor Temperature 90°C Type SC FT-1 Flame Rating

Engineered to Resist Flexing Abrasion Impact Chemicals

- ✓ **Finely Stranded Copper Conductors**
- ✓ **100% Fabric Serve, Jacket Impregnated**

Excels in* **Welding Stingers/Whips** **Welding Ground Leads** **Welding Electrode Leads**
Arc Welding *Not Exceeding 600 Volts AC



Super-Trex® Type W RHH/RHW-2 Single Conductor Power Cable

2000V (Type W) 600V (Type RHH/RHW-2) Max Conductor Temperature 90°C

Engineered to Resist Flexing Abrasion Impact Tension

- ✓ **Finely Stranded Tinned Copper Conductors**
- ✓ **Mylar Separator**
- ✓ **Live-Flex & Fluid Resistant Thermoset Insulation with Separator**

Excels in **Cranes (Floating, Shore & Mobile)** **Power Supply Applications**



Molded Single Pole Power Assemblies

600V 690A IP68, IP69K

Engineered to Resist Flexing Abrasion Tension Chemicals

- ✓ **Vulcanized Rubber Overmold**
- ✓ **Double Set Screw Crimp Contact**
- ✓ **Cam Lock Connection**
- ✓ **Universal Mating**

Excels in **Cranes (Floating, Shore & Mobile)** **Power Supply Applications** **Generators**

Case Study

Barge Builder Saves \$286K with Reusable Super-Trex® Weld Cable Assembly

Customer Problem

A builder of barges, tugboats, and other vessels was replacing cable every 3 months on average across all of its welding machines. Welding leads were failing like clockwork due to conditions typical of the shipyard – hazards like abrasion, heavy traffic, moisture, and weather. Each time, a 100-foot cable assembly failed the cost to replace it was \$374 plus labor.

Amphenol TPC Wire & Cable Solution

Amphenol TPC suggested a 1/0 ball nose molded connector assembly using **Super-Trex® 600 Volt Welding Cable**. ATPC's cable contains 2 1/2 times more stranding to reduce conductor fatigue and breakage and features a 100% fabric serve, which improves tear resistance and reduces jacket shrink-back. The jacket is a specially compounded TSE jacket 25% thicker than ordinary cable, making it a superior first line of defense against abrasion and impact while maintaining flexibility in all weather. The ball nose connector, fully bonded, reduces cable stress while creating a seal against dust, dirt, water, and chemicals. The connector also locks into place with a full 180° twist.



\$244K

Material Cost Savings



\$48K

Labor Cost Savings

Results from Two Year Time Period



Result

The customer replaced assemblies on 100 of its welding machines with Amphenol TPC's solution. After two years, those same weld assemblies were still in use without failure or need for replacement. Had the customer continued using previous products, the shipyard would've replaced assemblies eight times per machine in those same two years to the tune of \$244,200 in materials plus \$48,000 in labor. Instead, the customer invested just one time in ATPC's product for \$55,200 plus only \$6,000 in labor. Do the math...ATPC's welding cable assembly saved the customer a total of **\$286,000 in two years!**

We've Got You Covered

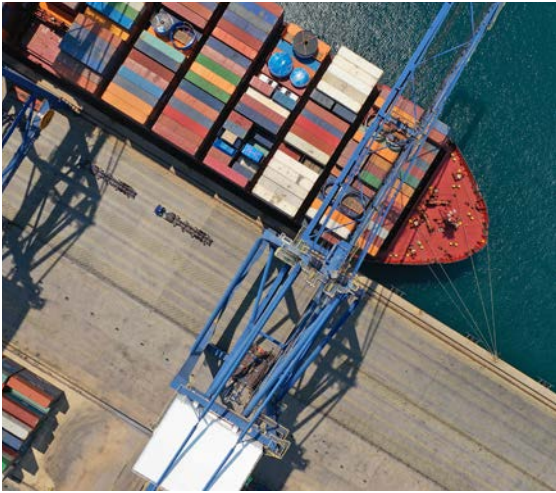
Amphenol TPC provides high-performance cables engineered with cost-saving durability designed for use in a number of industry-specific applications.

Areas: **Tools & Machinery; Dry Docks, Floating Docks, Berthing Stations, Travel Lifts, & Piers; Power Supply**

- Arc Welding
- Bus Welding Boxes or Transformers
- Cranes (Floating, Shore & Mobile)
- Festoon Systems
- Generators
- Heavy-Duty Tools
- Industrial Lighting
- Power Supply Applications
- Ship To Shore – Molded Locking Shore Power Assemblies
- Welding Electrode Leads
- Welding Ground Leads
- Welding Stingers/Whips



Learn More



Super-Trex® 600 Volt Welding Cable

Since selecting Amphenol TPC, our cost has decreased, quality has improved, and our welders are pleased with the durability of the welding and arc lines. Working with ATPC is a joy.

Douglas E. Kubizn,
Supervisor
Norfolk Naval Shipyard

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



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