

Solutions for the Metals Industry



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 Metals Solutions



The Metals Industry is exposed to various factors that can damage cables, including extreme temperatures, abrasion, and impact. 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®**, **Trex-Onics®** and **Thermo-Trex®** products are engineered to be abrasion and temperature-resistant, making them ideal for various applications within your steel or metals manufacturing areas. Whether it's in scrap yards, melt shops, pot lines, casters, mills, foundries, our cables and accessories are truly reusable products with 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.



Thermo-Trex® 500-K Single & Multi-Conductor Cables

 600V Max Conductor Temp 200°C



Engineered to Resist  Flexing  Tension  Abrasion  High Temperature





- ✓ Tinned Copper Conductors
- ✓ Silicone Rubber Insulation
- ✓ Aramid Fiber Jacket

Excels in Mud Guns Furnaces Charging Cranes

Super-Trex® 4-Conductor Aramid Reinforced Portable Power Reeling Cable



  200V Max Conductor Temp 90°C FT5 Flame Rating Type W

Engineered to Resist  Flexing  Abrasion  Tension  Chemicals




- ✓ Finely Stranded Tinned Copper Conductors
- ✓ Live-Flex & Fluid Resistant Ribbed EPR Insulation




Excels in Overhead Cranes Cable Carriers Slab Scarfing Robots Fryers/Boilers

Reeling & Teeming or Shifter Transfer Car

Trex-Onics® Overall Shielded Continuous Flex Multi-Conductor Cable

   600V FT1 Flame Rating VW-1 Flame Rating

Engineered to Resist  Flexing  Abrasion  Chemicals

- ✓ Finely Stranded Tinned Copper Conductors
- ✓ Specially Compounded TPE Insulation

Excels in Slab Scarfing Robots Cable Carriers Load Cell Sony Scales

Ski Lase & Heating Cooling Bell Towers Bander / Coiler RTDs

Case Study

From Downtime Nightmare to Efficiency Dream: Steel Bar Manufacturer's Success Story

Customer Problem

A manufacturer of engineered steel bars was replacing furnace cable every single week for all 6 units in its melt shop. Cable was routinely failing due to high temperatures associated with the environment, molten steel dropping onto the jacket (which also becomes abrasive once hardened), and cuts from being dragged around and run over. For each weekly failure, the cost to replace cable totaled \$418 in parts and labor, which added up quickly over time – not to mention the hours in downtime.

Amphenol TPC Wire & Cable Solution

We suggested **Thermo-Trex® 500K Cable with a Stainless Steel Overbraid**. This cable and sleeve duo allows for flexibility by using finely-stranded, tinned copper conductors and a specially woven aramid-braid jacket impregnated with heat and moisture-resistant finishing compounds. High heat resistance allows the cable to withstand continuous temperatures up to 392°F. The aramid fiber braid jacket adds tensile strength and added protection against abrasion.



\$15,422

Material Cost &
Labor Savings

Results from Ten Month Time Period

Result

After 10 months in use, the customer was excited to share that Amphenol TPC's product was holding up well against the environment. The total cost in product and labor for ATPC's solution was just \$1,307 compared to the \$16,730 the customer would've spent replacing the commodity product 40 times during that same timeframe — **a \$15,422 savings!** Plus, the customer was able to avoid downtime.

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.

Area: Blast Furnace

- Bottle Car Motor
- Cranes
- Fluid Power Controllers
- Mag Ladles
- Mixing or Stockhouse Tower
- Mud Guns
- Pendant Control
- Port Welders
- Reel Systems
- Switches
- Thermocouple
- Transfer Cars
- Trippers

Area: BOP/BOF Furnaces

- Charge Crane
- Furnace/Ladle Cars
- Magnet Crane
- Power Along
- Precipitator & Bag House
- Refractory Area
- Slag Pot Car
- Table Welders
- Transfer Car

Area: Caster

- Cable Carriers
- Crane
- Load Cell
- MOV
- Motor Drives
- Motor Leads
- Sensors
- Slab Torch
- Tables
- Torch Burners
- Welding Units

Area: Cold Mills

- Miscellaneous
- Motor Leads

Area: Crane

- Power & Control

Area: Electric Arc Furnace

- Forge & Finishing
- Furnace
- Motor Drives
- RTD
- Tap & Cast
- Torque Car Power

Area: Finishing Mills

- Annealing
- Cold Rolling
- Galvanizing
- Tinning

Area: Foundry

- Disa Sand
- Mold Machine

Area: Foundry Data Highway

- Camera Monitoring
- Communications
- Control Systems
- Crane

Area: Hot Mill

- Cable Protection
- Cranes
- Extension Cord
- Heat Controls
- Heat Treat
- Pendant Control
- Thermocouple
- Turtle Burners

Area: Integrated Steel / Melt Shop

- Charging Cars
- Coke Ovens
- Coke Pusher Guide Rack
- Hood Hoists
- Motorized Valves
- Quench Pans
- Sensors
- Thermocouple

Area: Ladle

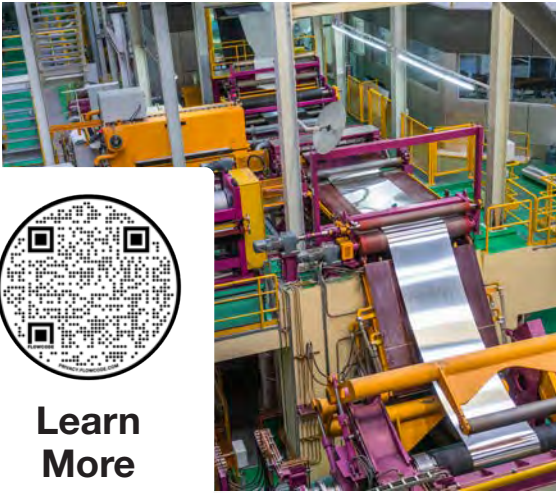
- Cable Carriers
- Feed Power
- Furnace Power
- Ladle Car Power
- Pendants
- Welders

Area: Scrap Yard

- Ladle
- Magnet Crane
- Transfer Cars
- Vehicle Harnesses

Area: Steel Production

- Battery Chargers
- Cameras
- Crane Controls
- Cranes
- Descale
- Emergency Power
- Hot Strip
- Lathes
- Pickling
- Slab Cutting
- Soaking Pits
- Storage and Logistics



“ Custom Connector Assembly

OEM connectors on the pickle line cranes at a U.S. steel producer were not lasting and failing prematurely. They had Amphenol TPC plugs installed and evaluated for one year and found that they have far exceeded the performance of the OEM connectors. Ultimately these plugs save some money when reviewing the piece price, but more importantly at this site, they say that these plugs increased the up-time by 46 hours.

Business Development Manager,
WESCO

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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