



# RAILWAY MARKET SOLUTIONS



TPC WIRE & CABLE CORP.  
EXPECT HIGH PERFORMANCE®

## Railway Market Solutions

TPC Wire & Cable Corp. is a leading supplier of high quality, high performance wire, cable and connectors that are designed and engineered to withstand harsh environments. TPC products outlast ordinary cable 10:1, reducing downtime, labor and overall costs. We know how critical it is that your cables and connectors be able to survive abuse from impact, abrasion, flexing, extreme temperatures, and chemical exposure – because failure is not an option.



### Rail Customer Saves with Cable Solution for Support Bar Weld Machine

#### Customer Problem

A container car facility in Saginaw, Texas was replacing the commodity cable on their support bar weld machine every 7 months. The machine welds a bar on the bottom of the container car, which supports the weight of the cylinder resting above. The commodity cables powering the machine were failing due to equipment driving over them, hot steel falling on them, and other instances of impact and abrasion. Six units were experiencing the same failures.

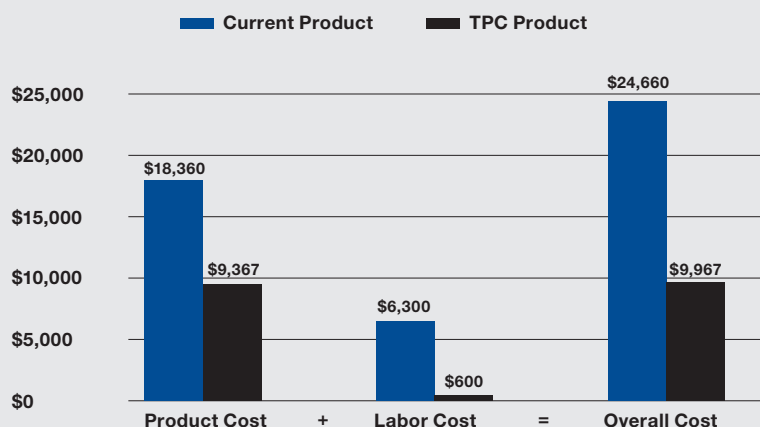
#### TPC Solution

Our TPC sales representative recommended Super-Trex® Type W RHH/RHW Single Conductor Power Cable. This product features a security yellow TSE jacket, which is flame and heat resistant while providing excellent protection against abrasion, tearing, impact, oils, and most industrial chemicals.

#### Result

After using TPC's product for 28 months, the customer confirmed its value. Previously, failures added up to \$24,660 in parts and labor plus the additional cost of downtime. Now, with Super-Trex® Type W RHH/RHW Single Conductor Power Cable in use, the customer has replaced cable just 1 time per unit, saving \$14,693 in parts and labor, while increasing production by 71 hours.

#### CURRENT PRODUCT VS. TPC PRODUCT



Source: TPC Cost Value Analysis #3374

## TPC Wire & Cable Corp. Customer Testimonial

Dennis D. Bullock  
Boilermaker Leadman,  
Northtown Diesel Shop  
Burlington Northern Railroad

*"Our weld lead and power lead cables are subject to extreme conditions. They lie in oils, solvents, soaps, and are subject to being run over by forklifts and other machinery. Previous to TPC, we changed out cable two to three times per year on each of our eight welding machines. We found burn holes, spongy insulation, and split covers to be our most frequent cause for replacement. Since we began using TPC, I am very happy to report we have not changed a single cable out to date. Some of our machines have been equipped with TPC cable for three full years! TPC has greatly reduced downtime and is an important asset to our welding safety program. I highly recommend TPC cables for any severe service condition."*

## TPC Products Solve Problems in Railway Applications

AREA	APPLICATIONS	TPC PRODUCTS
Operations & Maintenance	<b>Cranes, Crane Power &amp; Cable Carrier Systems</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable Super-Trex® Reduced Diameter Control Cable Super-Trex® Type W RHH/RHW Single Conductor Power Cable Trex-Onics® Overall Shielded C-Flex Multi-Conductor Cable Super-Trex® Multi-Conductor P&R Cable Super-Trex® Type W Portable Power & Automation Cable
	<b>Bucket Wheel Wiring</b>	Chem-Gard® 200 Cable
	<b>Transfer Cars &amp; Loaders</b>	Super-Trex® Type W Portable Power & Automation Cable
	<b>Festoon Systems</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable Super-Trex® Reduced Diameter Control Cable Super-Trex® Multi-Conductor P&R Cable Trex-Onics® Flat Festoon Cable
	<b>Transfer Vehicles</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable Super-Trex® Reduced Diameter Control Cable Super-Trex® Multi-Conductor P&R Cable
	<b>Cable Reels / Cord Reels</b>	Super-Trex® Multi-Conductor P&R Cable Trex-Onics® Coil Cord
	<b>Motor Operated &amp; Emergency Isolation Valves</b>	Chem-Gard® 200 Cable
	<b>Trunnions</b>	Super-Trex® Reduced Diameter Control Cable
Maintenance of Way	<b>Tamper, Spikers, Cranes, Tie Removers, Tie Inserters &amp; Ballast Regulators</b>	Trex-Onics® Overall Shielded C-Flex Multi-Conductor Cable Trex-Onics® Individually Shielded Multi-Pair Control Cable Super-Trex® Portable Cord
Car Shop – Axles, Wheels	<b>Pendants</b>	Super-Trex® Multi-Conductor P&R Cable
	<b>Welding Ground Cable</b>	Super-Trex® Type W Portable Power & Automation Cable (8/4 or 6/4)
	<b>Overhead Doors</b>	Trex-Onics® High-Flex Ultra-Coil Retractiles with 16 AWG Quick-Connects™
	<b>Welding Ground Leads &amp; Electrode Leads</b>	Super-Trex® DC Welding Cable
Diesel Shop	<b>Wheel Turning Machine</b>	Assemblies
	<b>Drop Table</b>	Super-Trex® Type W RHH/RHW Single Conductor Power Cable Super-Trex® Multi-Conductor P&R Cable
	<b>Welding Applications</b>	Super-Trex® 600 Volt Welding Cable
	<b>Battery Charger</b>	Super-Trex® DC Welding Cable
	<b>Pendants</b>	Super-Trex® Multi-Conductor P&R Cable
	<b>Locomotive Jump Start</b>	Super-Trex® Welding Cables Ball Nose Assemblies & Cord Sets
	<b>Head of Train (HOT)</b>	Chem-Gard® 200 Single Conductor Military Assemblies
	<b>Engine Removal for Repair</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable
Signaling, Communications & Control	<b>Programming Switches, Programmable Controllers &amp; Limit Switches</b>	Super-Trex® Ultra-gard™ Portable Cord Trex-Onics® Overall Shielded C-Flex Multi-Conductor Cable Trex-Onics® Individually Shielded Multi-Pair Control Cable Trex-Onics® Individually Shielded Resolver & Intrinsically Safe Cable
	<b>Telecommunications</b>	Trex-Onics® Overall Shielded C-Flex Multi-Conductor Cable
	<b>Sensing Equipment</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable Super-Trex® Reduced Diameter Control Cable
	<b>Digital Remote Control</b>	Trex-Onics® Overall Shielded C-Flex Multi-Conductor Cable



## TPC Products Solve Problems in Railway Applications *(Continued)*

AREA	APPLICATIONS	TPC PRODUCTS
<b>Signaling, Communications &amp; Control</b>	<b>Control Circuits, Remote Control of Electrical Equipment</b>	Trex-Onics® Reduced Diameter Extra Heavy-Duty Reeling Cable Super-Trex® Reduced Diameter Control Cable Super-Trex® Multi-Conductor P&R Cable Trex-Onics® Individually Shielded Resolver & Intrinsically Safe Cable Trex-Onics® Low Capacitance Cable
	<b>Signaling &amp; Sound Equipment</b>	Super-Trex® Ultra-gard™ Portable Cord
	<b>Railroad Stand-By Temporary and Emergency Power</b>	Super-Trex® Type W Portable Power & Automation Cable
<b>Power &amp; Cooling</b>	<b>Grounding Systems</b>	Super-Trex® DC Welding Cable
	<b>Industrial Lighting</b>	Super-Trex® Type TC-ER Rated Portable Cord
	<b>Power Supply Applications</b>	Super-Trex® 600 Volt Welding Cable
	<b>Battery Charger Lead Wires</b>	Super-Trex® DC Welding Cable
<b>Tools &amp; Machinery</b>	<b>Heavy-Duty Tools, Portable Machinery &amp; Extension Cords</b>	Super-Trex® Ultra-gard™ Portable Cord Super-Trex® Reduced Diameter Control Cable
	<b>Pendant Pushbutton Stations</b>	Super-Trex® Ultra-gard™ Portable Cord Pendant Boxes
	<b>Portable Welding Units</b>	Super-Trex® Welding Cable
	<b>Coil Welder</b>	Super-Trex® Type W RHH/RHW Single Conductor Power Cable
	<b>Arc Welding, Automatic Welders</b>	Super-Trex® Reduced Diameter Control Cable Super-Trex® Multi-Conductor P&R Cable Super-Trex® 600 Volt Welding Cable
	<b>Automation Equipment</b>	Super-Trex® Type W RHH/RHW Single Conductor Power Cable Super-Trex® Type W Portable Power & Automation Cable Super-Trex® Type TC-ER Rated Portable Cord

## Custom Design & Engineering Capabilities

TPC Wire & Cable Corp. offers custom-engineered products that are designed using specific application and environmental information built to solve a particular problem for an individual customer. These product solutions represent a unique and valuable service offered by TPC, whose engineers are experienced in the electrical, mechanical, chemical, and industrial engineering disciplines. TPC engineers will assemble the critical components of your cable into a final design that delivers a longer-lasting, cost-effective alternative to the constant replacement of ordinary cable.

# LET TPC DO THE WORK.

**Get your cables connectorized  
& ready to install.**





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