



# Railway Signaling & Communications Solutions



## 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

# Railway Signaling & Communications













The Railway Industry plays a crucial role in transportation, particularly in railway signaling and communications. Operating in some of the toughest environments, railways face various harsh conditions such as extreme temperatures, vibrations, and impacts. At Amphenol TPC Wire and Cable, we offer a range of cables designed to ensure reliable and efficient signaling and communication systems, even under these demanding conditions.

Our CP Railway Signal Cables, Bond Strand & Case Wire provide excellent flexibility while being resistant to impact, abrasion, making them ideal for railway and signaling applications. Our cables are preferred for critical areas such as Track Signaling and Switches, Sensors, Scanners, Detectors due to their ability to perform optimally and last longer. By using Amphenol TPC products, you can save both time and money on maintenance and the overall cost of ownership.





## Featured Products

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

 	<h3>CP100 Railway Signal Cable</h3> <p>600V    Operating Temperature -30°C to +80°C</p> <p><b>Engineered to Resist</b>     Abrasion     Impact</p> <ul style="list-style-type: none"><li>✓ Bare Copper Conductors - Soil &amp; Stranded</li><li>✓ Linear Low-Density Polyethylene Insulation and Jacket</li><li>✓ Rip Cord Included Under the Jacket Layer</li></ul> <p><b>Excels in</b>    Vital Circuits    Track Circuits    Safety Circuits    Wayside Signaling</p>
 	<h3>CP200 Railway Signal Cable</h3> <p>600V    Operating Temperature -30°C to +80°C</p> <p><b>Engineered to Resist</b>     Abrasion     Impact</p> <ul style="list-style-type: none"><li>✓ Solid Bare Copper Conductors</li><li>✓ Linear Low-Density Polyethylene Insulation and Jacket</li><li>✓ Rip Cord Included Under the Jacket Layer</li></ul> <p><b>Excels in</b>    Vital Circuits    Track Circuits    Safety Circuits    Wayside Signaling</p>
 	<h3>CP300 Railway Signal Cable</h3> <p>600V    Operating Temperature -30°C to +80°C</p> <p><b>Engineered to Resist</b>     Abrasion     Impact</p> <ul style="list-style-type: none"><li>✓ Solid Bare Copper Conductors</li><li>✓ Linear Low-Density Polyethylene Insulation and Jacket</li><li>✓ Rip Cord Included Under the Jacket Layer</li></ul> <p><b>Excels in</b>    Vital Circuits    Track Circuits    Safety Circuits    Wayside Signaling</p>

# Featured Products



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



### Bond Wire

Designed to meet AREMA Manual Part 10.3.12 - Recommended Design Criteria for Bond Strand



600V FT-2 Flame Rating

**Engineered to Resist**  Abrasion  Impact

✓ **Finely Stranded Bronze Conductor**

✓ **Specially Compounded PVC insulation/Jacket**


**Excels in** Signal Bonds Power Bonds



### Case Wire

Designed to meet AREMA Manual Part 10.3.12 - Recommended Design Criteria for Insulated Signal Wire

600V FT-2 Flame Rating

**Engineered to Resist**  Impact

✓ **Stranded Bronze Conductor**

✓ **Ethylene Propylene Rubber (EPR) Insulation**

**Excels in** Signal Wiring Small Diameter Wiring Applications



## 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: Track Signaling and Switches

- Highway Grade Crossings
- Level Crossing Signals
- Switch Point Positioner
- Switch Point Slider
- Traffic Light Controllers

### Area: Sensors, Scanners, Detectors

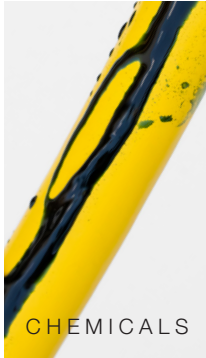
- Ballast Regulators
- Cranes
- Spikers
- Tamper
- Tie Inserters
- Tie Removers
- Axle Counting Systems
- Bearing Detectors
- Dragging Equipment Detectors
- Level Crossing Detectors
- Tag Readers
- Train Monitoring
- Wheel Sensors

# Designed to Empower Your Operation

The railway industry faces numerous challenges requiring a strong infrastructure and consistent maintenance to guarantee safety and efficiency. Railway tracks and signaling equipment are subjected to diverse weather conditions, ranging from extreme heat to freezing temperatures, which can impact track integrity and train operations. Regardless of the environment, ATPC cables are engineered with performance as a top priority, ensuring reliable operation in all environments.



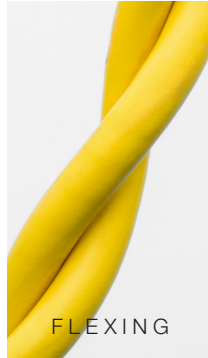
ABRASION



CHEMICALS



COLD TEMPS



FLEXING



HIGH TEMPS



IMPACT



TENSION

## Custom Solutions Engineered For You

### Custom Designed to Meet Your Needs

If your industrial operation requires a unique solution, Amphenol TPC Wire & Cable offers custom-engineered products designed to your specifications. These product solutions represent a unique and valuable service provided by ATPC 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



Pendant Box Assemblies



Custom Molded Connectors

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



**Headquarters**  
9600 Valley View Rd.  
Macedonia, Ohio 44056

**USA** 800-521-7935  
**Canada** 800-545-0211  
**Mexico** +52 55-5562-8409  
**Chile** +56 2 3319-5992  
**Columbia** +57 601-589-8076  
**Argentina** +54 11 3986-2359

[tpcwire.com](http://tpcwire.com)



**WARRANTY AND DISCLAIMER:** Seller makes no warranties, express or implied, with respect to this product, and seller disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, seller will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profit) from any cause whatsoever.

TPC1784 © Copyright 2024 by Amphenol TPC Wire & Cable. All rights reserved.  
No portion of this publication, whether in whole or in part, can be reproduced without the express written consent of Amphenol TPC Wire & Cable.



FS 35910