

# Wireless RF Interconnect Solutions for the Rail and Transit Industries

**Times LMR**<sup>®</sup>  
*Coaxial Cable & Connectors*

**Times**  **Protect**<sup>®</sup>  
*RF Lightning Protection*

- Positive Train Control
- Subway/Metro Applications
- Radio Communication Systems





## LMR<sup>®</sup> Cables



LMR<sup>®</sup> from Times Microwave Systems is the industry standard for flexible, low-loss coaxial cable.

Applications for flexible low loss coax are countless. While some manufacturers try to fit the application to a limited product selection, Times Microwave Systems offers the broadest range of sizes (LMR-100 to LMR-1700) and varieties to match the environmental and handling requirements of the application.

## LMR<sup>®</sup> Connectors



An extensive selection of LMR<sup>®</sup> connectors with crimp or clamp outer conductor attachment, and solder or non-solder 'EZ' center pins are available. All common interfaces (N, TNC, BNC, SMA, UHF, 7/16DIN and more) are supported. Times' **Advantage<sup>™</sup>** series connectors are world-renowned for their quality and reliability.



**T-RAD<sup>®</sup> Leaky Feeder Cables** provide coverage in buildings, mines, tunnels and other enclosed areas.



**Nu-Trac TRC-1250** Provides interior communications in tunnels, subways, ships and metal framed buildings.

## LMR<sup>®</sup> Prep and Installation Tools



LMR<sup>®</sup> Accessories



Times offers a complete line of easy-to-use accessories and cable prep, and installation tools.

## Times<sup>⚡</sup>Protect<sup>™</sup>



The **Times-Protect<sup>™</sup>** line of innovative RF lightning protection products addresses applications throughout the entire useful RF frequency range from DC through 6GHz. Among the most noteworthy features are:

- DC block designs for superior surge performance
- Designs with DC pass capability
- Unmatched PIM and RF characteristics
- High surge current ratings and multi-strike capability
- Lowest voltage and energy throughput ratings
- Solid brass construction & weatherized housings

## Smart<sup>⚡</sup>Panel<sup>®</sup>



- Single point grounding by design
- No external coaxial grounding kits required
- Accommodates 12 or 24 RF feeder cables
- Theft proof design

## Complete RF Interconnect Solutions For:

- Positive Train Control
- Locomotives
- Light Rail
- Metro Rail
- Subway
- SATCOM Systems
- Class 1 Railroad
- Railroad Base Stations



**LMR<sup>®</sup>-Bundled Cable** is a spiral configuration of multiple LMR<sup>®</sup>-400 or smaller LMR<sup>®</sup> cables under a common polyethylene outer jacket.



**SilverLine<sup>™</sup> Test Cables** offer reliability and highperformance for a wide variety of test applications.



## **About *TIMES MICROWAVE SYSTEMS***

Times Microwave Systems, was founded in 1948 as the Times Wire and Cable Company. Today, the company specializes in the design and manufacture of high performance flexible, semi-flexible and semi-rigid coaxial cable, connectors and cable assemblies. With over 60 years of leadership in the design, development, and manufacture of coaxial products for defense microwave systems, Times Microwave Systems is the acknowledged leader, offering high tech solutions for today's most demanding applications.

Cable assemblies from Times Microwave Systems are used as interconnects for microwave transmitters, receivers, and antennas on airframes, missiles, ships, satellites, and ground based communications systems, and as leads for test and instrumentation applications.

As a highly specialized and technically focused company, Times Microwave Systems has been able to continually meet the challenges of specialty engineered transmission lines for both the military and commercial applications, drawing upon our:

- Thousands of unique cable and connector designs
- Exceptional RF and microwave design capability
- Precise material and process controls
- Unique in-house testing capabilities including RF shielding/leakage, vibration, moisture/vapor sealing, phase noise and flammability
- Years of MIL-T-81490, MIL-C-87104, and MIL-PRF-39012 experience
- ISO 9001 Certification

In 2010, Times Microwave Systems introduced its Times-Protect™ line of lightning and surge protection solutions to address the challenging needs of wireless systems in the 21st century.

With over 60 years of Times Microwave Systems aerospace cable and connector technology experience and unparalleled design expertise, Times Microwave Systems' staff of Field Applications Engineers can help to provide the right solution for your interconnect applications.

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