

## Military Ground Vehicles

Coaxial cable technology plays an important role for communications, navigation, and targeting capabilities in military ground vehicles. Cables are vital for successful military missions and ensuring the safety of personnel in the field. Times Microwave Systems has a long heritage of providing coaxial cables for a variety of military ground vehicles.



[Learn More About Coaxial Cables for Military Ground Vehicles](#)

**What coaxial cables should be used on military vehicles?**

**Depends on the specific application and other factors**

Military-grade coaxial cables should meet stringent requirements for durability, reliability, and performance. Some important factors to consider when selecting coaxial cables for military vehicles include:

- **Frequency:** Choose a coaxial cable that supports the frequency range required by the communication or radar systems
- **Power Handling:** Ensure the cable can handle the power levels of the system
- **Temperature:** Ensure the cable can handle the temperatures of the vehicle and environment
- **Shielding:** Cables should provide shielding to minimize signal interference and ensure communication
- **Mechanical strength and durability:** Cables used in military vehicles should be robust and designed to withstand harsh conditions like vibration, shock, extreme temperatures, and moisture
- **Flexibility:** Consider if higher flexibility is needed to accommodate tight bends or complex routing
- **Environmental considerations:** Keep in mind type of cable jacket, need for IP67 or similar rating, or if a cable needs to be rodent repellent

Need More Information? Get in Contact with our Experts

## Popular Cables for Military Ground Vehicles



### Ruggedized for military application

- -40 to +85 °C
- Braided outer conductor withstands repeated bending
- Good selection of field installable and repairable IP67 connectors

**T-COM®**



### **Ideal for inside the vehicle**

- -40 to +85 °C
- Aluminum tape outer conductor
- Good selection of field installable and repairable IP67 connectors
- Easy to use tooling

**LMR®**



### **Higher temp alternative**

- -55 to +150 °C
- FEP jacket
- Standard for UK programs
- Good selection of field installable and repairable IP 67 connectors

**FBT**



## Higher frequency application (up to 18 GHz)

- -55 to +150 °C
- FEP jacket

MaxGain®

## Additional features

- PUR jacket, provides UV resistance and ruggedization
- DB jacket, filled with watertight compound that can form a scab if the jacket gets ripped
- FR jacket, fire retardant jacket material
- Armored jacket, extreme ruggedization and pull force
- Special heat shrink, to protect against abrasion from surface of vehicle
- M17 QPL listed cable available

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## Product Spotlight

[TF-047](#) is a versatile micro-coaxial designed for high-density applications and is the latest 047 cable from Times Microwave Systems.

# TF-047

IDEAL FOR:

- Ground and airborne systems
- Test and measurement
- Data network
- Quantum computer



## Multi-purpose SWaP-C solution

Check out Tf-047!

### Recent Video

Reel Times: Engineering Insights



Watch the Video

### Recent Article Feature

**Greater Challenges and Opportunities Will Drive Our Industry in 2023**

We recently published an opinion piece with Microwave Product Digest around the challenges of the RF industry and 2022 and the growth and opportunities in 2023.

Read More

## You Ask, We Answer!



**Q:** What factors impact choosing a coaxial cables for military ground vehicles?

**A:** A number of factors impact which coaxial cable is ideal for a military ground vehicle. These factors include: frequency range, power handling, temperature, shielding, mechanical strength and durability, flexibility, and environmental considerations.

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Times Microwave Systems, 358 Hall Ave, Wallingford, CT 06492-3574, USA, (800) 867-2629

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