

Coaxial cables for space technology must be lightweight and perform reliably in the smallest possible footprint. As a vital component of space technologies, cable assemblies must be resistant to high-shock and vibration, radiation, harsh environments, and extreme temperatures. At Times Microwave Systems, we have a long heritage of providing interconnect solutions for demanding applications like space.



[Check out our interactive space graphic!](#)

Our Solutions by Space Technology

Deep Space

Deep space technology requires cable assemblies that can fit into extremely restricted spaces while successfully operating at up to 70 GHz. Equipment for deep space technology must be lightweight, small, reliable, and resistant to high-shock, vibration, radiation, and extreme temperatures.



Space Orbits

Vacuum and radiation are two primary elements that pose significant risk to RF cable assemblies in satellites. These coaxial cable assemblies must withstand multipaction and radiation, not outgas, and be made with materials not prone to whiskering.

Launch

Cables used for space launches must withstand severe conditions and have the lightest possible weight. RF interconnect solutions used in space launches also must be able to withstand the extreme heat produced at launch.



Spaceflight Test

Coaxial assemblies for spaceflight testing must maintain precise repeatability of measurement and reliable electrical performance. These assemblies must be durable enough to withstand extensive handling and continuous movement from frequent connecting and disconnecting.

Communications

Cable assemblies are crucial for the support of higher data transmission volume with the newest generation of launch vehicles. Phase is a key parameter for space communications systems. Two main elements impact a coaxial cable assembly's phase tracking: electrical length and temperature.



Learn more about coaxial cables for space applications

Product Spotlight

The [SpaceFlight product line](#) embodies the critical requirements necessary for reliable performance in space. Our proprietary material conditioning and vacuum testing of assemblies ensure outgassing is minimized to meet NASA standards ASTM E-595.



SpaceFlight Cable Assemblies

Recent Video

Reel Times - Space Assemblies



[Watch the Video](#)

Recent Article Feature

[Understanding the Unique RF Interconnect Requirements for Ultra-Demanding Hypersonic Missile and Satellite Applications](#)

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Miss our latest webinar?

A promotional banner for a webinar. On the left, the logos for "TIMES MICROWAVE SYSTEMS AN AMPHENOL COMPANY" and "LMR COILS • CONNECTORS • TRAILS • ASSEMBLIES" are displayed. The main text reads "The Real Cost of Fakes and Clones" in large, bold letters. Below this, it says "WEBINAR July 20 • 11:00 am EST". On the right side of the banner, there is a graphic of a blue wire with an orange splatter effect containing a white warning triangle with an exclamation mark and the text "LMR FAKE ALERT".

[Watch our webinar on-demand](#)

Upcoming Tradeshows



BICSI

Las Vegas

September 11-14

Booth 1822



European Microwave Week

Berlin, Germany

September 17-22

Booth 106D



RSSI

Indianapolis, IN

October 2-4

Booth 1529

Schedule a meeting with us!



Q: What's the difference between the TC-400-NF-BH-X and the EZ-400-NF-BH-X?

A: The only thing that the “TC” and “EZ” prefixes on the connector part numbers designate is how the pin/contact is attached to the center conductor of the cable. The “TC” designates a solder-on pin. This style of connector could be used on any of the LMR-400 constructions and would be required for the LMR-400-Ultraflex or the TCOM-400-Flexstrand-DB which both have stranded center conductors.

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