

# RF CONNECTORS

A Full Spectrum of RF Solutions

As a leading global manufacturer of coaxial connectors, TE Connectivity (TE) is your source for rugged, high-performance RF for military and aerospace applications. From traditional Mil-Spec BNC and TNC connectors to the latest microminiature designs, you will find a wide range of industry-standard families to help meet your needs through 60 GHz.

We are also a leader in innovating new ways of bringing RF connectivity to application. Our connector modules for VITA 67, for example, provide four or eight SMPM interfaces for VPX embedded computing applications.

## Helping Maintain Signal Integrity

Our connectors are designed to provide rugged performance in harsh environments, while maintaining low insertion losses, excellent VSWR, and other electrical and mechanical characteristics.

## Harness the Performance of Cable Assemblies

Count on TE for custom cable assemblies. We build some of the most advanced RF cables available, with tight-toleranced electrical characteristics, small sizes and lighter weights, and rugged materials. Whether you need a standard RG cable-based assembly or a custom assembly to help meet the most rigorous requirements, we provide assemblies fully factory-tested and characterized.

Coupling Type	Connector Family	Reference Dia. (Inch)	Frequency Limit (GHz)
Bayonet	C Series	0.765	11
	BNC Series	0.572	4
	HN Series	0.887	4
Threaded	N Series	0.750	11
	TNC	0.640	11
	SMA	.312 hex	26.5
	SSMA	.250 hex	26.5
	OSMM	.187 hex	45
Snap-On/ Slide-On	OSP	0.300	22
	OSSP	0.210	28
	SMP	0.165	40
	SMPM	0.125	40



## Applications

- Antennas
- Avionics
- Electronic Systems
- Instrumentation
- Launch Vehicles
- Military Communications
- Missiles
- Radar Arrays
- Satellite Communications

## For More Information

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1-1773850-7 ADM/RRD 2.5M 01/2015

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Consult TE for the latest dimensions and design specifications.



## QUICK REFERENCE GUIDE

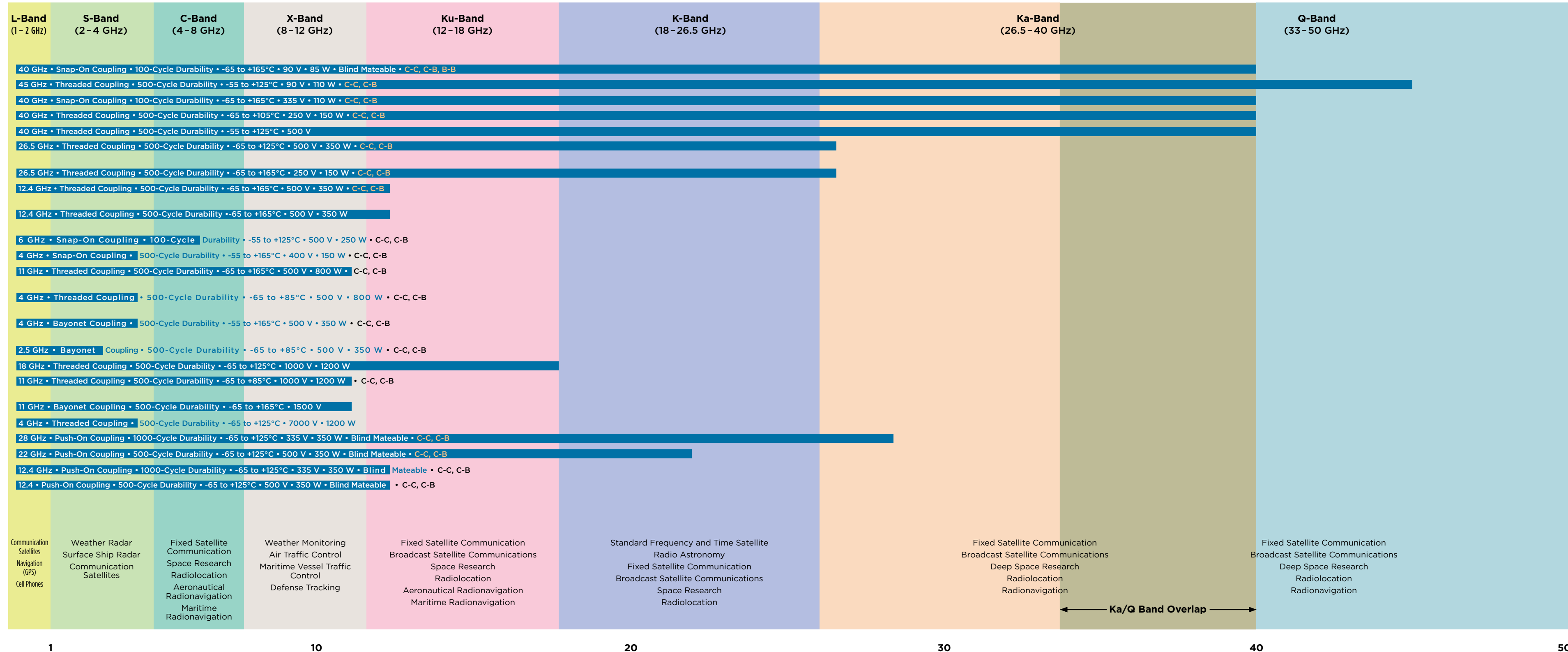
### High Performance

- Performance up to 60 GHz
- Wide range of connector types and sizes from standard to microminiature

# RUGGED 50-OHM RF CONNECTORS



<b>Microminiature</b>	<p><b>SMPM (GPPO)</b></p> <p><b>OSMM</b></p>
<b>Subminiature</b>	<p><b>SMP (GPO)</b></p> <p><b>SSMA Semi-Rigid</b></p> <p><b>SMK (2.92 mm)</b></p> <p><b>SMA Semi-Rigid</b> MIL-DTL-39012/ 79, 80, 81, 82, 83, 92</p> <p><b>SSMA Flexible</b></p> <p><b>SMA Flexible</b> MIL-DTL-39012/55, 56, 57, 58, 59, 60, 61</p> <p><b>SMA Edge Mount</b> MIL-DTL-83517</p> <p><b>QMA</b></p> <p><b>SMB</b></p>
<b>Miniature</b>	<p><b>TNC Dual Crimp</b> MIL-DTL-39012/26, 27, 29</p> <p><b>TNC Single Crimp</b> MIL-T-81490</p> <p><b>BNC Dual Crimp</b> MIL-DTL-39012/16, 17, 19</p> <p><b>BNC Single Crimp</b></p>
<b>Standard</b>	<p><b>High-Frequency N Series</b></p> <p><b>N Dual Crimp</b> MIL-DTL-39012/1, 2, 3, 5</p> <p><b>C</b></p> <p><b>HN (High-Voltage N)</b></p>
<b>Blind Mate</b>	<p><b>OSSP Semi-Rigid (BMMA)</b></p> <p><b>OSP Semi-Rigid (BMA)</b></p> <p><b>OSSP Flexible (BMMA)</b></p> <p><b>OSP Flexible (BMA)</b></p>



C-C: Cable to cable connectivity  
C-B: Cable to board connectivity  
B-B: Board-to-board connectivity

**Note:** Specifications shown are typical for the product family in military, maritime, and aerospace applications. Frequency ranges can vary with the cable used and with product application. TE offers a broad range of RF connectors with different materials and platings to meet different cost, performance, and temperature requirements. Contact your local TE representative about your specific application requirements.

Voltage is working voltage at sea level. Watts is typical average power handling at 1 GHz, sea level, and room temperature.