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.

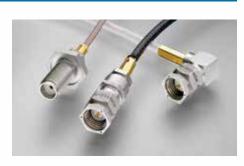
Helping Maintain Signal Integrity

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 factorytested and characterized.

Coupling Type	Connector Family	Reference Dia. (Inch)	Frequency Limit (GHz)	
Bayonet	C Series	0.765	11	
	BNC Series	0.572	4	
Threaded	HN Series	0.887	4	
	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

TE Technical Support Center

North America +1 800 522 6752 Asia Pacific +86 0 400 820 6015 Austria +43 1 905 601 228 Baltic Regions +46 8 5072 5000 Benelux +31 73 6246 999 +420 800 701 462 Czech Republic +33 1 34 20 86 86 France +49 6251 133 1999 Germany +36 809 874 04 Hungary +39 011 401 2632 Italy Nordic +46 8 5072 5000 Poland +48 800 702 309 +7495 790 790 2 Russia Spain/Portugal +34 93 2910366 +41 52 633 66 26 Switzerland +44 800 267 666 United Kingdom

Follow us on Twitter for all the latest product news @TEConnectivity, and on Facebook, TEConnectivity.

te.com/rf

© 2015 TE Connectivity Ltd. family of companies. All Rights Reserved.

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

TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice.

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







your specific application requirements.

sea level, and room temperature.

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

RUGGED 50-OHM RF CONNECTORS













30

SMB



OSMM





HN Series TNC

SMA

SSMA

OSP/OSSP

SMP/SMPM

		(1 – 2 GHZ)	(2-4 GHz)	(4-8 GHz)	(8-12 GHz)	(12-18 GHz)	
Microminiature	SMPM (GPPO)	40 GHz •	Snap-On Coupling • 100-	Cycle Durability • -65 to	•+165°C • 90 V • 85 W • Blind N	1ateable • C-C, C-B, B-B	
riicioiiiiiiataic	OSMM	45 GHz • Threaded Coupling • 500-Cycle Durability • -55 to +125°C • 90 V • 110 W • C-C, C-B					
Subminiature	SMP (GPO)	40 GHz • Snap-On Coupling • 100-Cycle Durability • -65 to +165°C • 335 V • 110 W • C-C, C-B					
Sub-illinature	SSMA Semi-Rigid	40 GHz • Threaded Coupling • 500-Cycle Durability • -65 to +105°C • 250 V • 150 W • C-C, C-B					
	SMK (2.92 mm)	40 GHz • Threaded Coupling • 500-Cycle Durability • -55 to +125°C • 500 V					
	SMA Semi-Rigid MIL-DTL-39012/ 79, 80, 81, 82, 83, 92	26.5 GHz	• Threaded Coupling • 50	00-Cycle Durability • -65	to +125°C • 500 V • 350 W • C	-C, C-B	
	SSMA Flexible	26.5 GHz	• Threaded Coupling • 50	00-Cycle Durability • -65	to +165°C • 250 V • 150 W • C	-C, C-B	
	SMA Flexible MIL-DTL-39012/55, 56, 57, 58, 59, 60, 61	12.4 GHz	• Threaded Coupling • 500	D-Cycle Durability • -65 t	to +165°C • 500 V • 350 W • C-C	, С-В	
	SMA Edge Mount MIL-DTL-83517	12.4 GHz	• Threaded Coupling • 50	0-Cycle Durability •-65	to +165°C • 500 V • 350 W	_	
	QMA	6 GHz •	Snap-On Coupling • 1	00-Cycle Durability	• -55 to +125°C • 500 V • 250 W	/ • C-C, C-B	
	SMB	4 GHz •	Snap-On Coupling • 500	O-Cycle Durability • -55	to +165°C • 400 V • 150 W • C-0	С, С-В	
Miniature	TNC Dual Crimp MIL-DTL-39012/26, 27, 29	11 GHz • `	Threaded Coupling • 500-	Cycle Durability • -65 to	+165°C • 500 V • 800 W • C-0	С, С-В	
	TNC Single Crimp MIL-T-81490	4 GHz •	Threaded Coupling • 5	00-Cycle Durability	• -65 to +85°C • 500 V • 80	0 W • C-C, C-B	
	BNC Dual Crimp MIL-DTL-39012/16, 17, 19	4 GHz •	Bayonet Coupling • 500	O-Cycle Durability • -55	to +165°C • 500 V • 350 W • C-	·C, C-B	
	BNC Single Crimp	2.5 GHz	• Bayonet Coupling • 5	00-Cycle Durability	• -65 to +85°C • 500 V • 35	0 W • C-C, C-B	
Standard	High-Frequency N Series	18 GHz •	Threaded Coupling • 500-	-Cycle Durability • -65 to	+125°C • 1000 V • 1200 W		
	N Dual Crimp MIL-DTL-39012/1, 2, 3, 5	11 GHz • 1	Threaded Coupling • 500-	Cycle Durability • -65 to	• +85°C • 1000 V • 1200 W • 0	C-C, C-B	
	С	11 GHz •	Bayonet Coupling • 500	-Cycle Durability • -65	to +165°C • 1500 V		
	HN (High-Voltage N)	4 GHz •	Threaded Coupling • 500	O-Cycle Durability • -65	to +125°C • 7000 V • 1200 W		
Blind Mate	OSSP Semi-Rigid (BMMA)	28 GHz •	Push-On Coupling • 1000	-Cycle Durability • -65 t	o +125°C • 335 V • 350 W • Blin	d Mateable • C-C, C-B	
	OSP Semi-Rigid (BMA)	22 GHz •	Push-On Coupling • 500-	Cycle Durability • -65 to	+125°C • 500 V • 350 W • Bline	d Mateable • C-C, C-B	
	OSSP Flexible (BMMA)	12.4 GHz • Push-On Coupling • 1000-Cycle Durability • -65 to +125°C • 335 V • 350 W • Blind Mateable • C-C, C-B					
	OSP Flexible (BMA)	12.4 • Push-On Coupling • 500-Cycle Durability • -65 to +125°C • 500 V • 350 W • Blind Mateable • C-C, C-B					
C-C: Cable to cable connectivity							
C-B: Cable to board connectivity		Communication Satellites	Weather Radar	Fixed Satellite Communication	Weather Monitoring	Fixed Satellite Communication	
B-B: Board-to-board connectivity		Navigation	Surface Ship Radar Communication	Space Research	Air Traffic Control Maritime Vessel Traffic	Broadcast Satellite Communication Space Research	
Note: Specifications shown are typical for the product family in military, maritime, and aerospace		(GPS)	Satellites	Radiolocation	Control	Radiolocation	

Ku-Band Ka-Band S-Band C-Band X-Band K-Band Q-Band (18-26.5 GHz) (1 - 2 GHz)(2-4 GHz) (4-8 GHz) (8-12 GHz) (12-18 GHz) (26.5-40 GHz) (33-50 GHz) Standard Frequency and Time Satellite Fixed Satellite Communication Fixed Satellite Communication Radio Astronomy Broadcast Satellite Communications Broadcast Satellite Communications Fixed Satellite Communication Deep Space Research Deep Space Research Maritime Vessel Traffic Control Space Research Satellites Radiolocation Broadcast Satellite Communications Radiolocation Radiolocation Radiolocation applications. Frequency ranges can vary with the cable used and with product application. Aeronautical Defense Tracking TE offers a broad range of RF connectors with different materials and platings to meet different Space Research Radionavigation Radionavigation Aeronautical Radionavigation Radionavigation cost, performance, and temperature requirements. Contact your local TE representative about Maritime Radionavigation Radiolocation Maritime **←** Ka/Q Band Overlap **←** Radionavigation

AEROSPACE, DEFENSE & MARINE /// RF CONNECTORS QRG PAGE 3 AEROSPACE, DEFENSE & MARINE /// RF CONNECTORS QRG AEROSPACE, DEFENSE & MARINE /// RF CONNECTORS QRG PAGE 4 PAGE 5

20