



# TNC COMPATIBILITY CHART

## Performance

Female and male connectors of the same specification type are designed to provide the best matched condition when mated together. When female and male connec-

tors of different specification types are mated, less than optimum electrical performance may be experienced even though they are mechanically compatible.

		MIL-C-87104/2 "AFTNC" 1		MAURY 5E-053 2 4		IEC 169-26 Grade 1		IEC 169-26 Grade 0		IEC 169-17 Grade 0		IEC 169-17 Grade 2		MIL-STD-348A TNC		MIL-STD-348A Test Conn 5		MIL-STD-348A TNCA 6		MIL-T-81490 7	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
FREQ RANGE (GHz)		18		18		18		18		16		16		16		16		18		16	
MIL-C-87104/2	M				OK		OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8	3
"AFTNC" 1	F			2		3		3		OK	8	OK	8	OK	8	OK	8	3		OK	8
MAURY 5E-053	M						OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8	OK
2 4	F					OK		OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8
IEC 169-26	M								OK	8	3	8	3	8	3	8	3		OK	8	3
Grade 1	F							OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8
IEC 169-26	M									8	3	8	3	8	3	8	3		OK	8	3
Grade 0	F									OK	8	OK	8	OK	8	OK	8	OK		OK	8
IEC 169-17	M												OK		OK		OK	8	OK		3
Grade 0	F											OK		OK		OK		3	8	OK	
IEC 169-17	M														OK		OK	8	OK		3
Grade 2	F													OK		OK		3	8	OK	
MIL-STD-348A	M															OK	8	OK		OK	
TNC	F														OK		3	8	OK		
MIL-STD-348A	M																8	OK		OK	
Test Conn 6	F																3	8	OK		
MIL-STD-348A	M																			8	3
TNCA 5	F																			OK	8

- 1 AFTNC is a Maury designation standing for "Air Force TNC". The Maury interface is identical to MIL-C-87104/2 except it has a solid outer conductor on the male and is rated to 19 GHz.
- 2 Compression fit of mating dielectrics is possible with early designs.
- 3 Mating will result in non-contacting outer conductors.
- 4 The Maury 5E-053 TNC was originally designed in 1967 to be a general purpose TNC test connector compatible with commercially available TNC connectors. This connector has been improved over the years and is now fully compatible with all the above TNC connectors.
- 5 Maury MIL-STD-348A TNCA interface is fully compliant with the specification. The Maury connector is rated to 19 GHz.
- 6 MIL-C-39012 test connector has been replaced by the MIL-STD-348A test connector. Both specifications are identical.
- 7 MIL-T-81490 EW TNC is rated to 16 GHz. The male connector interface of this specification is not fully defined.
- 8 Frequency compatibility problem. These connectors should not be mixed except in cases where one connector has been chosen as a test connector and is characterized on a network analyzer for error corrected measurements.