



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 "AFTNC" 1	M	18			OK		OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8	3
	F		18	2		3		3		OK	8	OK	8	OK	8	OK	8	3		OK	8
Maury 5E-053 2 4	M	18				3	OK	3	OK	8	OK	8	OK	2	OK	2	OK	2	OK	2	OK
	F		18			OK	2	OK	2	OK	2	OK	2	OK	3	OK	3	OK	3	OK	3
IEC 169-26 Grade 1	M	18							OK	8	3	8	3	8	3	8	3		OK	8	3
	F		18					OK		OK	8	OK	8	OK	8	OK	8	OK		OK	8
IEC 169-26 Grade 0	M	18								8	3	8	3	8	3	8	3		OK	8	3
	F		18							OK	8	OK	8	OK	8	OK	8	OK		OK	8
IEC 169-17 Grade 0	M	16											OK		OK		OK	8	OK		3
	F		16									OK		OK		OK		3	8	OK	
IEC 169-17 Grade 2	M	16													OK		OK	8	OK		3
	F		16												OK		OK	3	8	OK	
MIL-STD-348A TNC	M	16														OK	8	OK		OK	
	F		16													OK		3	8	OK	
MIL-STD-348A Test Conn 6	M	16															8	OK		OK	
	F		16														3	8	OK		
MIL-STD-348A TNCA 5	M	18																		8	3
	F		18																	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 20 GHz.
- 2 Compression fit of mating dielectrics is possible.
- 3 Mating could 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.
- 5 Maury MIL-STD-348A TNCA interface is fully compliant with the specification. The Maury connector is rated to 20 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- 6 MIL-C-39012 test connector has been replaced by the MIL-STD-348A test connector.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.