

CABLE ASSEMBLIES

FLEXIBLE CABLE

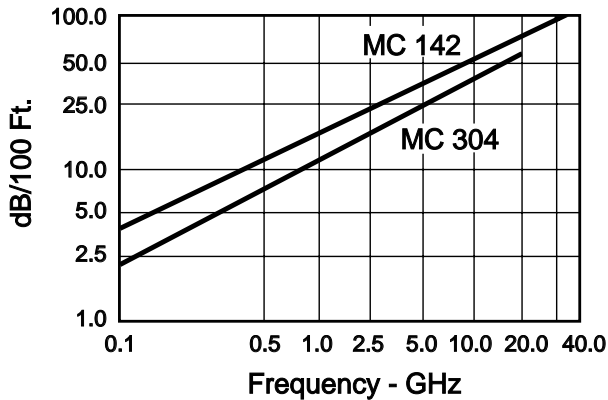
Maury produces an extensive line of flexible cable assemblies that feature improved cable to connector transition designs. The graphs below show the loss characteristics and power handling capability of the various types of cables that are available. The following pages show our semi-rigid cable assemblies and our test port cable and adapter kits. Please consult our Sales Department for application assistance.



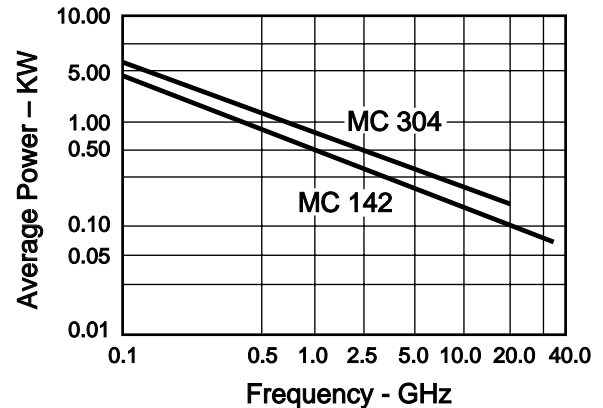
Connector Arrangement

A	—	female to female
B	—	male to male
C	—	female to male
D	—	female bulkhead to male

Nominal Loss Characteristics ¹



Maximum Power Handling Capability ²



Available Models

To order, find the model number of the desired cable type, add a letter (from the chart above right) to designate the connector arrangement needed,

followed by the length needed (in inches). Example: model 8918B36 is a 36-inch DC – 18.0 GHz MC304 assembly with precision N connectors (male to male).

Model	Frequency Range (GHz)	Cable Type	Connector	VSWR (maximum) ³	Jacket O.D. ⁴	Bend Radius (minimum) ⁴
8913 (*)(**)	DC — 10.0	RG214/U	N	1.30	0.42	2.0
8922A (*)(**)	DC — 18.0	MC304	7mm	1.35	0.30	1.5
8918 (*)(**)	DC — 18.0	MC304	Precision N	1.40	0.30	1.5
8015 (*)(**)	DC — 26.5	MC142	3.5mm	1.60	0.20	1.0
8926 (*)(**)	DC — 12.4	RG142B/U	SMA	1.50	0.19	1.0
	12.4 — 18.0	RG142B/U	SMA	1.75	0.19	1.0

(*) Insert the appropriate letter to indicate the connector arrangement needed.

(**) Insert the length needed (in inches).

¹ Cable only. Does not include mismatch or connector losses which are additive.

² Cable only. Will have to be derated for specific connector type.

³ VSWR specification is extremely conservative in most cases.

⁴ Dimensions in inches.

CABLE ASSEMBLIES

SEMI-RIGID CABLE

Maury produces an extensive line of semi-rigid cable assemblies which are normally supplied in straight

lengths as summarized below. Please contact us for additional information.

Precision Connectors

The assemblies in this model series are used in critical measurement applications requiring high stability and durability.

To order, find the model number, replace (X) with the letter indicating the desired connector arrangement (from the chart on page 161) and replace (L) with the desired cable length in inches.

Model	Frequency Range (GHz)	Connector	Cable Type	Typical VSWR ¹
8917A (L)	DC—18.0	7mm	0.141	1.35
8917B (L)	DC—18.0	7mm	0.250	1.25
8950 (X) (L)	DC—18.0	Precision N	0.141	1.40
8951 (X) (L)	DC—18.0	Precision N	0.250	1.30

SMA Connectors – 0.141 Cable Size

The 8921 series semi-rigid cable assemblies have precision SMA connectors per MIL-C-39012 and are ideal for general purpose laboratory or systems applications.

To order, find the model number and replace (L) with the desired cable length in inches.

Model	Frequency Range (GHz)	Connector Arrangement	Typical VSWR
8921A (L)	DC—18.0	SMA female to female	<1.30
8921B (L)	DC—26.5	SMA male to male	<1.40
8921C (L)	DC—18.0	SMA female to male	<1.30
8921D(L)	DC—18.0	SMA female bulkhead to male	<1.30

Type N General Purpose – DC-10 GHz

The 8910 series semi-rigid cable assemblies have general purpose type N connectors per MIL-C-39012 and are ideal for measurements and systems use.

To order, find the model number and replace (L) with the required cable length in inches.

Model		Description
0.141 ²	0.250 ²	
8910A (L)	8911A (L)	female to female
8910B (L)	8911B (L)	male to male
8910C (L)	8911C (L)	female to male
8910D (L)	8911D (L)	female bulkhead to female
8910E (L)	8911E (L)	female bulkhead to male

Precision Semi-Rigid Assemblies

These units are precision semi-rigid cable assemblies configured in a 90° bend. Three line sizes are offered: 0.0865" with 2.4mm connectors, 0.141" with 3.5mm connectors ³ and 0.250" with 7mm connectors ⁴. Sexed connectors are offered in all combinations.



Model	Connector	Frequency Range (GHz)	VSWR (maximum)	"A" Dimension (inches)
8011A1 ⁵	3.5mm f-f	DC - 26.5	1.25	2.00
8011B1 ⁵	3.5mm m-m			
8011C1 ⁵	3.5mm f-m			
9526C	7mm	DC - 8.0 8.0 - 18.0	1.10 1.25	1.75
7911A ⁵	2.4mm f-f	DC - 50.0	1.5	1.90
7911B ⁵	2.4mm m-m			
7911C ⁵	2.4mm f-m			

¹ VSWR specification is extremely conservative in most cases.
² Semi-rigid cable size.
³ Precision 3.5mm per Maury data sheet 5E-062.

⁴ Precision 7mm per Maury data sheet 5E-060.
⁵ Phase matched.