

MilTech® 340

High Performance Microwave Assemblies



MilTech® Assemblies are the qualified family of hermetically sealed flexible RF and microwave transmission line assemblies that are optimized and qualified for commercial, military airborne and other demanding applications.

Features:

- Low loss with excellent stability
- Fully vapor sealed for system longevity
- Flexible and highly ruggedized for severe environments

Specifications

Impedance
50 Ohms

Op Temp
-85 to 392°F
-65 to 200°C

Units

	in (mm)	
Diameter	0.34 (8.6)	
Weight	lb/ft (kg/m)	0.010 (0.14)
Minimum Static Bend Radius	in (mm)	1.75 (43.2)
Maximum Operating Frequency	GHz	18.5
Capacitance	pF/ft (pF/m)	25.40 (83.3)
Delay	ns/ft (ns/m)	1.25 (0.4)

Calculation

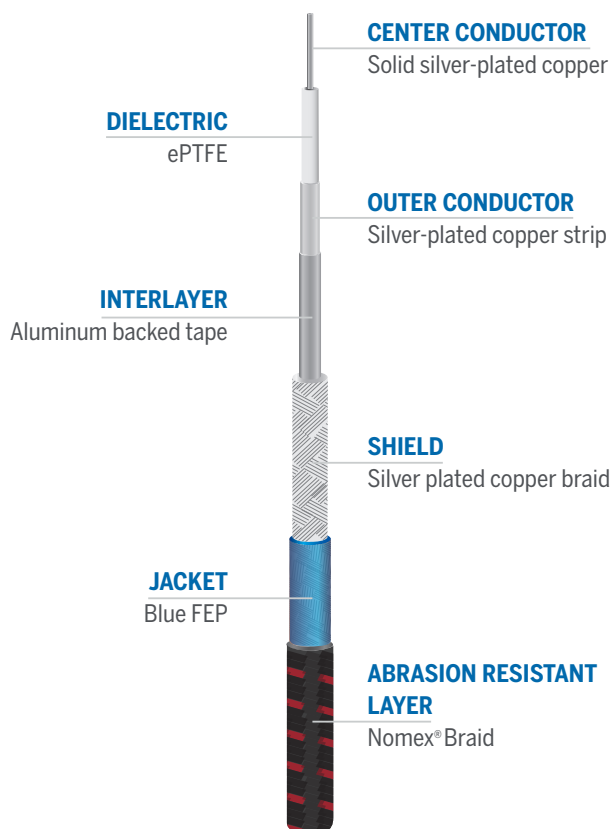
$$IL = (K1 \times v(f) + K2 \times f) \times \text{Cable Length} + \text{Connectors Loss}$$

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values

	dB/ft	dB/m
K1	0.001436	0.004710
K2	0.000001	0.000004



Insertion Loss at Typical Frequencies (Cable Only)

	dB/100 ft	dB/100 m
500 MHz	3.3	10.7
2000 MHz	6.7	21.9
6000 MHz	11.9	39.6
10000 MHz	15.7	51.4
18000 MHz	22	70.9

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Standard Replaceable Connectors

Connector Type	Part Number	Weight oz/g
ATNC Plug	SD48555	0.62 (18)
ATNC Plug 45°	SD48576	0.32 (38)
ATNC Plug 90°	SD48573	1.50 (43)
ATNC Jack	SD48601	0.62 (18)
ATNC Jack BKHD	SD48590	0.79 (23)
ATNC 90° Jack BKHD	SD48609	1.58 (45)
N Plug	SD 48721	0.97 (28)
N Plug 90°	SD48628-1	2.06 (59)
N Jack 90° BKHD	SD48629	2.90 (83)
N Jack BKHD	SD48667	1.25 (36)
SC Plug	SD48642	1.65 (47)
SC Jack BKHD	SD48680	2.50 (71)
SMA Plug	SD48530	0.62 (18)
SMA Plug 90°	SD48608	1.02 (30)
TK Plug	SD48554	0.73 (21)

Self-Locking Replaceable Connectors

Connector Type	Part Number	Weight oz/g
ATNC Plug	SD48606	1.06 (30)
ATNC Plug 90°	SD48645	2.11 (60)
N Plug	SD48669	1.55 (44)
SMA Plug	SD48689	1.30 (37)
SMA Plug 90°	SD48688	0.70 (20)
TNC Plug 45°	SD48674	2.15 (61)



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Global manufacturing capability: US and Asia.



Assembled and tested assemblies provide assured performance.

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