



Coaxial Cable

50Ω 12 inch DC to 18 GHz

086-12SBSM+



CASE STYLE: KP1567-12

Maximum Ratings

Operating Temperature	-55°C to 105°C	
Storage Temperature	-55°C to 105°C	
Power Handling at 25°C, Sea Level	211W at 0.5 GHz	
	150W at 1 GHz	
	101W at 2 GHz	
	59W at 6 GHz	
	45W at 10 GHz	
	35W at 18 GHz	

Permanent damage may occur if any of these limits are exceeded.

Features

- Wideband frequency coverage, DC to 18 GHz
- Low Loss, 1.26 dB at 18 GHz
- Excellent Return Loss, 27 dB at 18 GHz
- SMA-F bulkhead connector at one end
- Hand formable to almost any custom shape without special bending tools
- 6mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation
- Insulated outer jacket standard
- Connector interface, meets MIL-STD-348

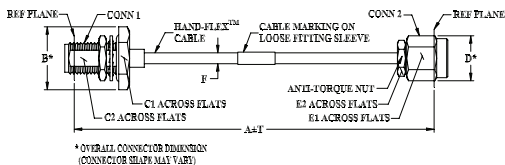
Applications

- Bulkhead connector mounts on front panel of equipment racks
- Replacement for custom bent 0.086" semi-rigid cables
- Communication receivers and transmitters
- Military and aerospace system
- Environmental and test chambers

Connectors	Model	Price	Qty.
Conn1 SMA-Male	Conn2 SMA-Female Bulkhead	086-12SBSM+	\$13.95 ea. (1-9)

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

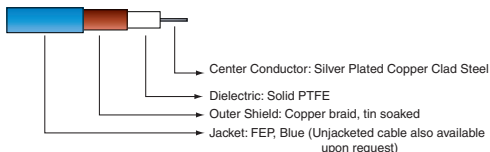
Outline Drawing



Outline Dimensions (inch mm)

A	B	C1	C2	D
12.0	.51	.438	.232	.36
304.80	12.95	11.13	5.89	9.14
E1	E2	F	T	wt
.313	.250	.108	0.1	grams
7.95	6.35	2.75	2.54	11.48

Cable Construction



Connectors: Coupling Nut: Stainless Steel Passivated
Body: Stainless Steel Gold Plated
Center Pin: Brass, Gold Plated (SMA-M) and BeCuB Gold Plated (SMA-F)

Electrical Specifications at 25°C

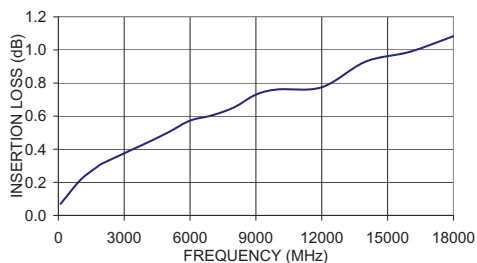
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		18	GHz
Length ¹			12		inches
Insertion Loss	DC - 2	—	0.23	0.47	dB
	2 - 6	—	0.4	0.83	
	6 - 10	—	0.64	1.12	
	10 - 18	—	0.9	1.55	
Return Loss	DC - 2	23	39	—	dB
	2 - 6	23	36	—	
	6 - 10	17	28	—	
	10 - 18	16	24	—	

1. Custom sizes available, consult factory.

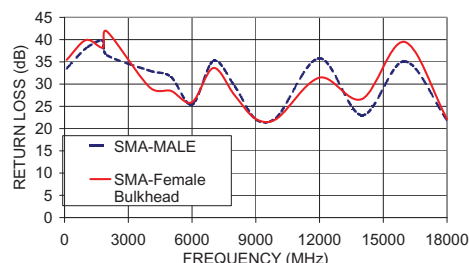
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		SMA-Male	SMA-Female Bulkhead
100	0.07	33.53	35.46
1008	0.21	38.04	39.90
1800	0.30	39.76	38.19
2000	0.31	36.49	41.81
4001	0.44	33.02	29.30
5000	0.50	31.65	28.49
6000	0.57	25.43	25.94
7001	0.60	35.18	33.61
8001	0.65	29.57	27.51
9000	0.73	22.05	22.17
10000	0.76	22.61	22.26
12001	0.77	35.79	31.46
14001	0.93	22.99	26.65
16000	0.99	35.11	39.49
18000	1.08	21.88	22.17

086-12SBSM+ INSERTION LOSS



086-12SBSM+ RETURN LOSS



For detailed performance specs & shopping online see web site



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IFIRF MICROWAVE COMPONENTS

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