

Coaxial Cable

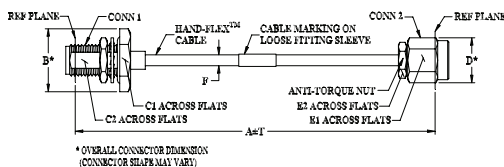
50Ω 12 inch DC to 18 GHz

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.

Outline Drawing

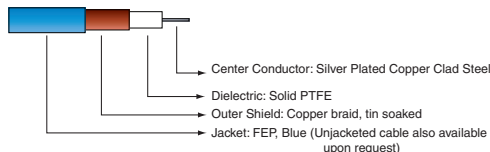


Outline Dimensions (inch/mm)

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)

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

Electrical Specifications at 25°C

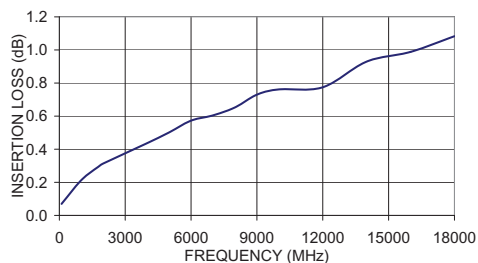
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		18	GHz
Length ¹			12		inches
Insertion Loss	DC - 2	—	0.23	0.47	dB
	2 - 6	—	0.4	0.83	
	6 - 10	—	0.64	1.12	
	10 - 18	—	0.9	1.55	
Return Loss	DC - 2	23	39	—	dB
	2 - 6	23	36	—	
	6 - 10	17	28	—	
	10 - 18	16	24	—	

1. Custom sizes available, consult factory.

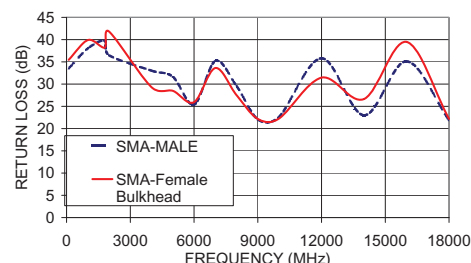
Typical Performance Data

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



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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

086-12SBSM+



CASE STYLE: KP1567-12

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