

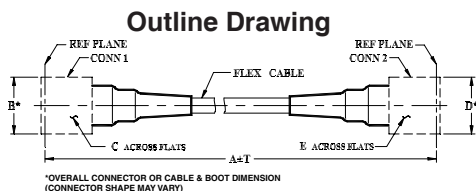
FLEXTM TEST Quick-Connect Test Cable

50Ω 2FT DC to 18 GHz

Maximum Ratings

Operating Temperature	-55°C to 105°C
Storage Temperature	-55°C to 105°C
Permanent damage may occur if any of these limits are exceeded.	

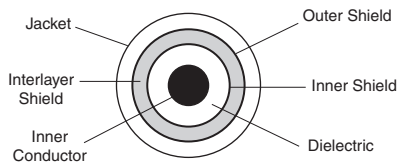
Shielding Effectiveness	>100 dB
Power Handling at 25°C	891W Max. at 0.4 GHz
	539W Max. at 1 GHz
	363W Max. at 2 GHz
	180W Max. at 6 GHz
	117W Max. at 12 GHz
Jacket	88W Max. at 18 GHz
	Clear FEP



Outline Dimensions (inch/mm)

A	B	C	D	E	T	wt
Feet	Meters	0.42	0.312	0.42	0.312	Feet Meters grams
2	0.61	10.67	7.92	10.67	7.92	0.06 0.02 67

Cable Cross Section



Cable Construction	
Inner Conductor	Solid Silver Plated Copper Clad Steel
Dielectric	Solid PTFE
Shield	Silver-Plated Copper Flat Ribbon Braid Aluminum-Polyimide Tape Interlayer 36 GA Silver-Plated Copper Braid (90%k)
Jacket	Clear FEP
Connectors	
- passivated stainless steel - captive contact - thick wall interface (SMA) - gold plated beryllium copper center contacts - PTFE dielectric	

Product Guarantee*

Mini-Circuits® will repair or replace your test cable at its option if the connector attachment fails within six months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.

Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document 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

Features

- RoHS compliant
- wideband coverage, DC to 18 GHz
- extra rugged construction with strain relief for longer life
- stainless steel SMA connectors for long mating-cycle life
- useful over temperature range, -55°C to 105°C
- triple shield cable for excellent shielding effectiveness
- flexible for easy connection & bend radius
- superior stability of insertion loss, VSWR & phase vs. flexing
- 6 month guarantee*

Applications

- high volume production test stations
- research & development labs
- environmental & temperature test chambers
- replacement for OEM test port cables
- field RF testing
- cellular infrastructure site testing

CBL2SMQ-SM+



CASE STYLE: GM1006-2

Connectors	Model
Conn1 SMA-MALE**	Conn2 SMA-MALE CBL2SMQ-SM+

+RoHS Compliant

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

Electrical Specifications at 25°C

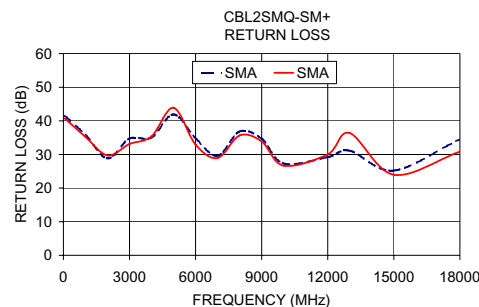
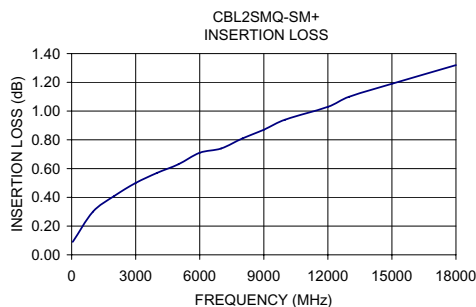
FREQ. (GHz)	LENGTH (FT)	INSERTION LOSS (dB)				RETURN LOSS (dB)			
		DC-2.5 GHz	2.5-6 GHz	6-12 GHz	12-18 GHz	DC-2.5 GHz	2.5-6 GHz	6-12 GHz	12-18 GHz
$f_L - f_U$		Typ. Max.	Typ. Max.	Typ. Max.	Typ. Max.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.
DC-18	2	0.4 0.6	0.7 0.95	1.1 1.35	1.4 1.75	30 23	30 20	27 17	27 17

Custom sizes available, consult factory.

** Quick-turn connector, one turn to mate on one side only (marking: 1T)

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		SMA-MALE	SMA-MALE
50.00	0.09	41.59	40.78
1000.00	0.30	35.87	35.26
2000.00	0.41	28.84	29.72
3000.00	0.50	34.75	33.12
4000.00	0.57	35.04	35.35
5000.00	0.63	41.90	43.88
6000.00	0.71	34.81	32.93
7000.00	0.74	29.60	28.94
8000.00	0.81	36.84	35.65
9000.00	0.87	34.69	33.88
10000.00	0.94	27.32	26.65
12000.00	1.03	29.23	30.01
13000.00	1.10	31.14	36.36
15000.00	1.19	25.24	23.96
18000.00	1.32	34.53	30.85



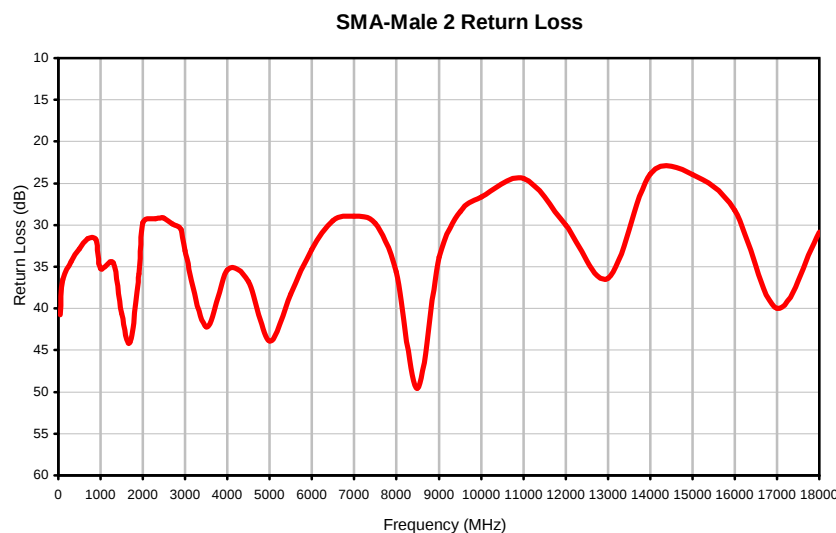
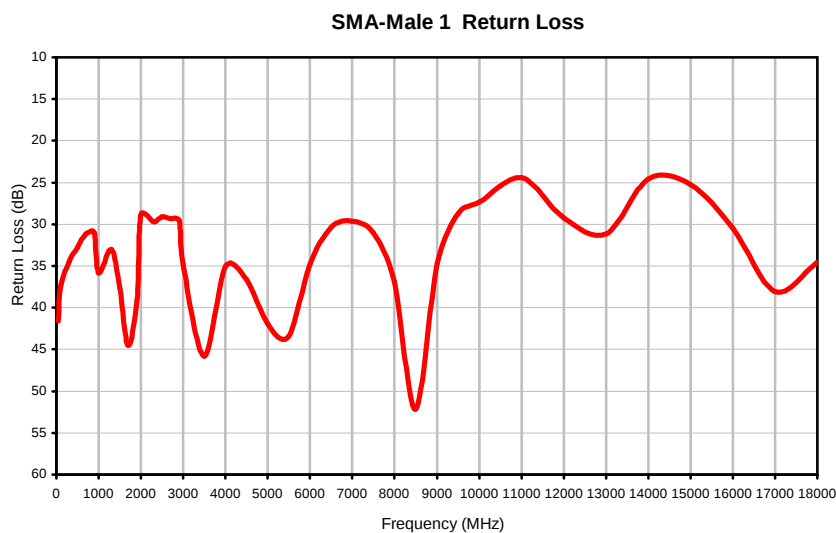
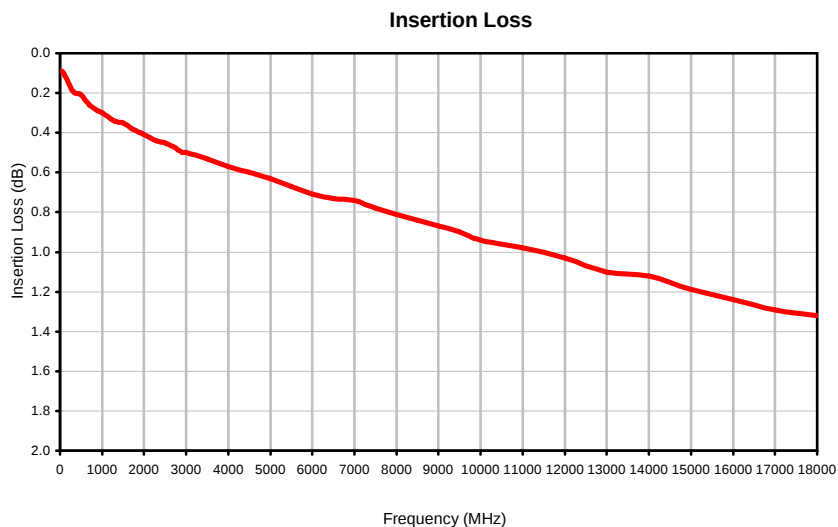
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. C
M151107
CBL2SMQ-SM+
BC/TD/CP/AM
150709

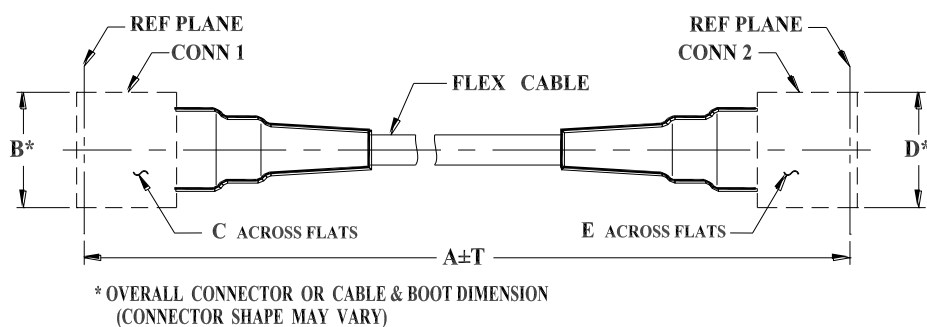
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	SMA-MALE 1 RETURN LOSS (dB)	SMA-MALE 2 RETURN LOSS (dB)
50	0.09	41.59	40.78
100	0.11	37.30	36.55
300	0.19	34.45	34.40
500	0.21	32.74	32.83
700	0.26	31.19	31.60
900	0.29	31.03	31.80
1000	0.30	35.87	35.26
1300	0.34	33.04	34.57
1500	0.35	37.61	40.56
1700	0.38	44.52	44.06
1900	0.40	39.07	35.86
2000	0.41	28.84	29.72
2300	0.44	29.73	29.26
2500	0.45	29.06	29.16
2700	0.47	29.33	29.83
2900	0.50	29.57	30.52
3000	0.50	34.75	33.12
3500	0.53	45.81	42.20
4000	0.57	35.04	35.35
4500	0.60	36.61	36.73
5000	0.63	41.90	43.88
5500	0.67	43.43	38.26
6000	0.71	34.81	32.93
6500	0.73	30.40	29.50
7000	0.74	29.60	28.94
7500	0.78	30.98	29.77
8000	0.81	36.84	35.65
8500	0.84	52.20	49.60
9000	0.87	34.69	33.88
9500	0.90	28.73	28.43
10000	0.94	27.32	26.65
11000	0.98	24.40	24.40
12000	1.03	29.23	30.01
13000	1.10	31.14	36.36
14000	1.12	24.54	23.89
15000	1.19	25.24	23.96
16000	1.24	30.49	28.26
17000	1.29	38.07	39.98
18000	1.32	34.53	30.85

Typical Performance Curves



Outline Dimensions



GM1006 SERIES
SMA MALE (CONN-1)
SMA MALE (CONN-2)

CASE STYLE #	A		B	C	D	E	T		WEIGHT GRAMS
	FEET	METERS					FEET	METERS	
GM1006-1	1.00	.30	0.42 (10.67)	0.312 (7.92)	0.42 (10.67)	0.312 (7.92)	.06	.02	48
GM1006-1.5	1.50	.46					.06	.02	58
GM1006-1.64	1.64	.50					.06	.02	60
GM1006-2	2.00	.61					.06	.02	67
GM1006-3	3.00	.91					.09	.03	87
GM1006-3.28	3.28	1.00					.10	.03	92
GM1006-3.5	3.50	1.07					.11	.03	97
GM1006-4	4.00	1.22					.12	.04	106
GM1006-4.92	4.92	1.50					.15	.05	124
GM1006-5	5.00	1.52					.15	.05	126
GM1006-6	6.00	1.83					.18	.05	145
GM1006-6.56	6.56	2.00					.20	.06	156
GM1006-7	7.00	2.13					.21	.06	165
GM1006-7.5	7.50	2.29					.23	.07	175
GM1006-8	8.00	2.44					.24	.07	184
GM1006-8.2	8.20	2.50					.25	.08	188
GM1006-9	9.00	2.74					.27	.08	204
GM1006-9.84	9.84	3.00					.30	.09	220
GM1006-10	10.00	3.05					.30	.09	223
GM1006-11	11.00	3.35					.33	.10	243
GM1006-12	12.00	3.66					.36	.11	262

Unless otherwise specified dimensions are in inches (mm).

Tolerances: 2Pl. ± .03; 3Pl. ± .015

Note:

1. Flexible Coaxial Cable.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

Case Style

GM

GM1006 SERIES
SMA MALE (CONN-1)
SMA MALE (CONN-2)

CASE STYLE #	A		B	C	D	E	T		WEIGHT GRAMS
	FEET	METERS					FEET	METERS	
GM1006-14	14.00	4.27	0.42 (10.67)	0.312 (7.92)	0.42 (10.67)	0.312 (7.92)	.42	.13	301
GM1006-15	15.00	4.57					.45	.14	321
GM1006-16	16.00	4.88					.48	.15	340
GM1006-16.4	16.40	5.00					.49	.15	348
GM1006-17	17.00	5.18					.51	.16	360
GM1006-20	20.00	6.10					.60	.18	418
GM1006-23	23.00	7.01					.69	.21	477
GM1006-24	24.00	7.32					.72	.22	496
GM1006-25	25.00	7.62					.75	.23	516
GM1006-26	26.00	7.92					.78	.24	535
GM1006-27	27.00	8.23					.81	.25	555
GM1006-30	30.00	9.14					.90	.27	613
GM1006-32	32.00	9.75					.96	.29	652
GM1006-32.8	32.80	10.00					.98	.30	668
GM1006-35	35.00	10.67					1.05	.32	711
GM1006-37	37.00	11.28					1.11	.34	750
GM1006-39	39.00	11.89					1.17	.36	789
GM1006-40	40.00	12.19					1.20	.37	808
GM1006-50	50.00	15.24					1.50	.46	1003

Unless otherwise specified dimensions are in inches (mm).



Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010
Mini-Circuits ISO 9001 & ISO 14001 Certified

INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 105°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 105°C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 105°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except -105°C
Mechanical Flexing	20,000 cycles During each cycle, cable flexed from 90° through 0° to -90° and back with a Radii of 3 inches	- - -