



Mini-Circuits®



Test Cable

CBL-3FT-SFNM+

50Ω 3FT DC to 18 GHz SMA-Female to N-Male

FEATURES

- Wideband coverage, DC to 18 GHz
- Extra rugged construction with strain relief for longer life
- Stainless steel 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



Generic photo used for illustration purposes only

Model No.	CBL-3FT-SFNM+
Case Style	GM1132-3
Connectors	SMA-Female to N-Male

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS¹ AT 25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency range		DC		18	GHz
Length ¹		3			FT
Insertion Loss	DC - 2.5	—	0.6	0.8	dB
	2.5 - 6	—	1.0	1.35	
	6 - 12	—	1.5	1.95	
	12 - 18	—	1.9	2.45	
Return Loss	DC - 2.5	23	30	—	dB
	2.5 - 6	20	30	—	
	6 - 12	17	27	—	
	12 - 18	17	27	—	

1. Custom sizes available, consult factory.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +105°C
Storage Temperature	-55°C to +105°C
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 88W Max. at 18 GHz

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

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.





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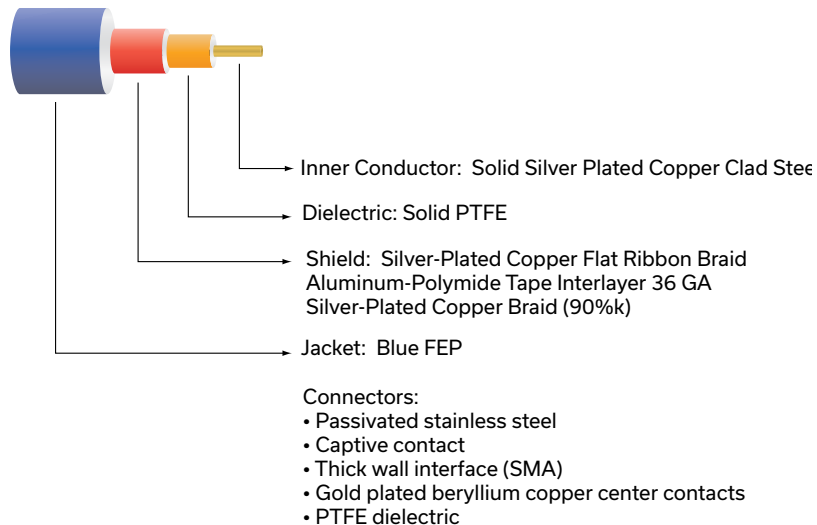


Test Cable

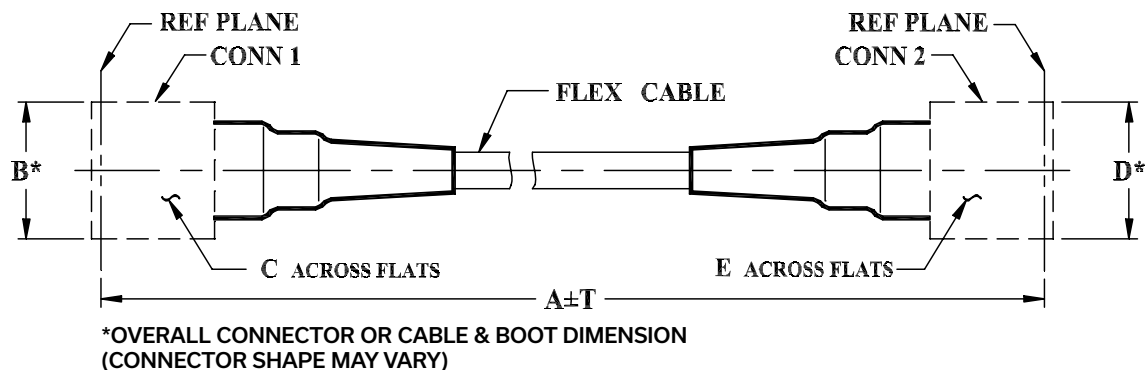
CBL-3FT-SFNM+

50Ω 3FT DC to 18 GHz SMA-Female to N-Male

CABLE CONSTRUCTION



OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch/mm)

A		B	C	D	E	T		wt
Feet	Meters					Feet	Meters	grams
3	0.91	.51 12.95	-	.88 22.35	.750 19.05	0.09	0.03	118





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Test Cable

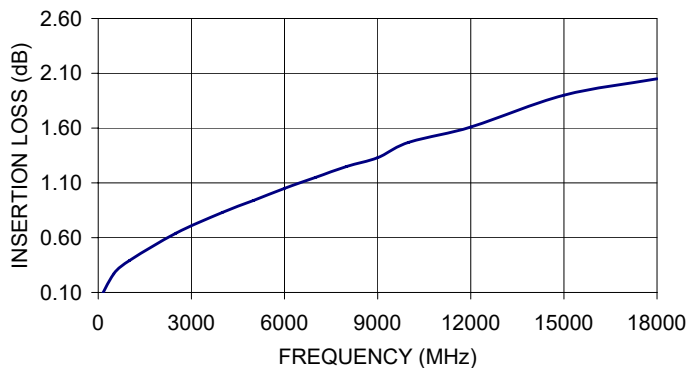
CBL-3FT-SFNM+

50Ω 3FT DC to 18 GHz SMA-Female to N-Male

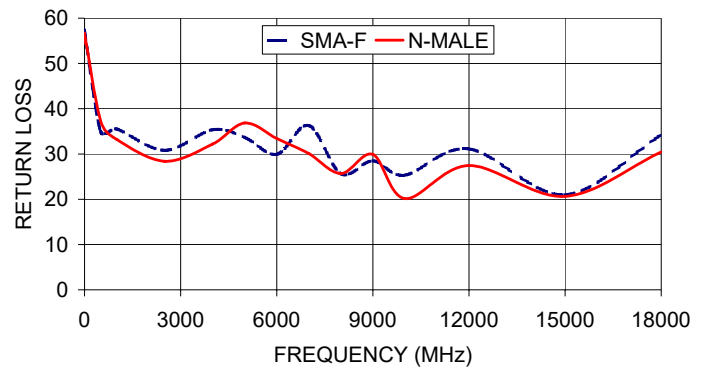
TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		SMA-Female	N-Male
0.3	0.01	55.32	54.51
1.0	0.01	57.17	56.55
500	0.27	34.97	37.32
1000	0.39	35.55	33.24
2500	0.64	30.82	28.38
4000	0.83	35.37	32.20
5000	0.94	33.66	36.85
6000	1.05	29.94	33.42
7000	1.15	36.29	30.09
8000	1.25	25.64	25.68
9000	1.33	28.50	29.91
10000	1.47	25.34	20.15
12000	1.61	31.12	27.46
15000	1.90	21.00	20.63
18000	2.05	34.23	30.44

CBL-3FT-SFNM+
INSERTION LOSS



CBL-3FT-SFNM+
RETURN LOSS



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



Test Cable, SMA-Female/N-Male

CBL-3FT-SFNM+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	SMA-FEMALE RETURN LOSS (dB)	N-MALE RETURN LOSS (dB)
0.3	0.01	54.51	55.32
1	0.01	56.55	57.17
10	0.04	45.21	45.96
50	0.08	42.96	42.78
100	0.12	45.82	48.67
250	0.19	39.82	39.37
500	0.27	37.32	34.97
750	0.34	36.57	35.41
1000	0.39	33.24	35.55
1250	0.44	34.02	39.77
1500	0.48	39.85	49.93
1750	0.52	42.90	40.09
2000	0.56	33.33	35.12
2250	0.60	28.68	30.94
2500	0.64	28.38	30.82
2750	0.67	29.43	31.02
3000	0.70	32.07	32.45
3500	0.76	37.10	42.05
4000	0.83	32.20	35.37
4500	0.89	28.96	31.16
5000	0.94	36.85	33.66
5500	0.99	33.79	40.94
6000	1.05	33.42	29.94
6500	1.10	24.54	29.23
7000	1.15	30.09	36.29
7500	1.19	26.59	31.10
8000	1.25	25.68	25.64
8500	1.28	32.37	33.52
9000	1.33	29.91	28.50
9500	1.39	24.80	22.78
10000	1.47	20.15	25.34
11000	1.56	20.46	25.82
12000	1.61	27.46	31.12
13000	1.66	39.17	30.62
14000	1.75	29.22	24.04
15000	1.90	20.63	21.00
16000	1.93	25.27	21.54
17000	1.98	24.28	20.95
18000	2.05	30.44	34.23

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

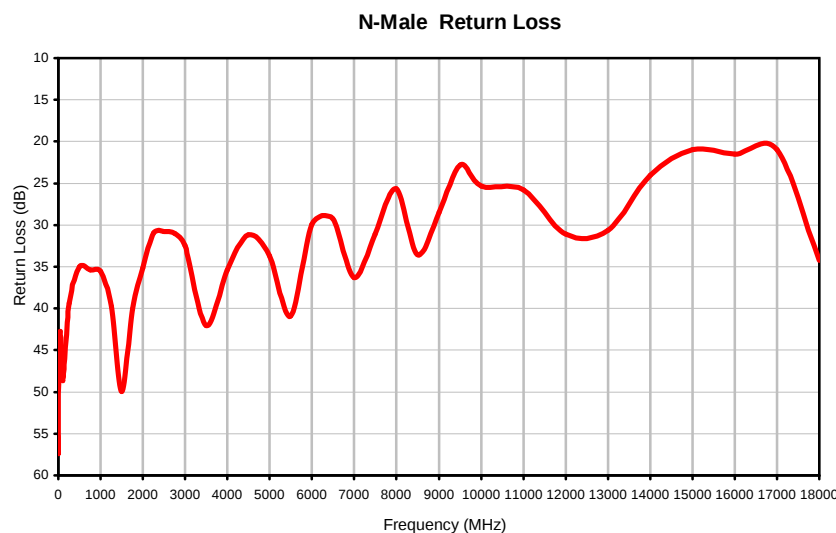
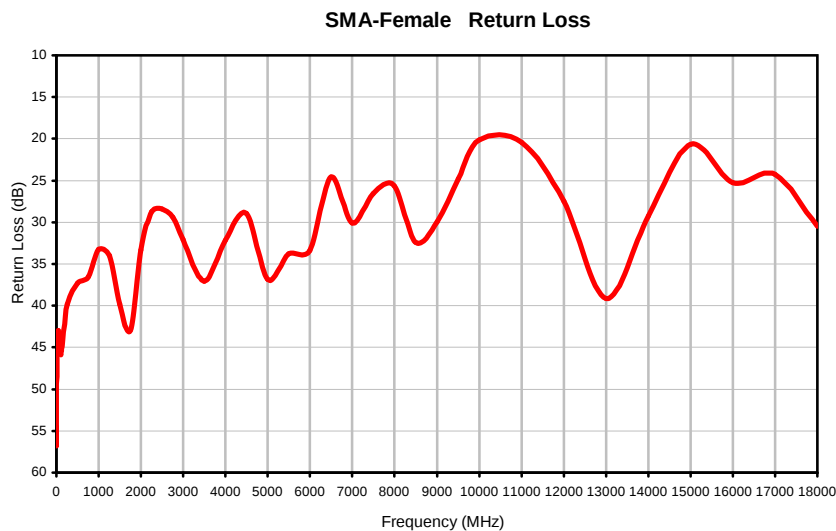
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



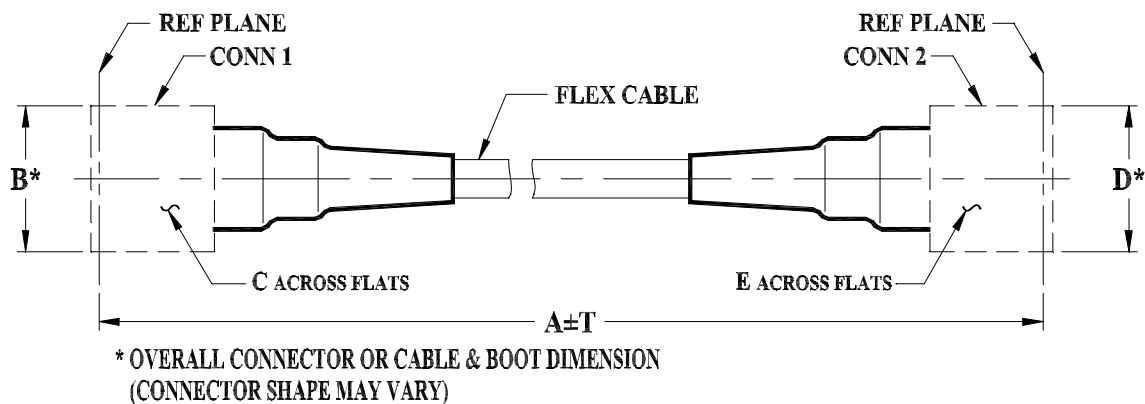
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves



Outline Dimensions



GM1132 SERIES

SMA FEMALE (CONN-1)

N MALE (CONN-2)

CASE STYLE #	A		B	C	D	E	T		WEIGHT GRAMS
	FEET	METERS					FEET	METERS	
GM1132-1	1	.30	.51 (12.95)	--	.88 (22.35)	.750 (19.05)	.06	.02	79
GM1132-2	2	.61					.06	.02	98
GM1132-3	3	.91					.09	.03	118
GM1132-4	4	1.22					.12	.04	137
GM1132-5	5	1.52					.15	.05	157
GM1132-6	6	1.83					.18	.05	176

Unless otherwise specified dimensions are in inches (mm).

Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$

Note:

1. Flexible Coaxial Cable.



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

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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



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	- - -