



Mini-Circuits



QUICK-CONNECT

Test Cable

CBL3NMQ-NM+

50Ω 3FT DC to 18 GHz N-Male

FEATURES

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



Generic photo used for illustration purposes only

Model No.	CBL3NMQ-NM+
Case Style	GM1106-3
Connectors	N-Male ² to N-Male

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

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

ELECTRICAL SPECIFICATIONS 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	2.5	
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.
2. Quick-turn connector, 1½T to mate on one side only (marking: 1T)

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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 ECO-022579
 CBL3NMQ-NM+
 MCL NY
 240729





QUICK-CONNECT

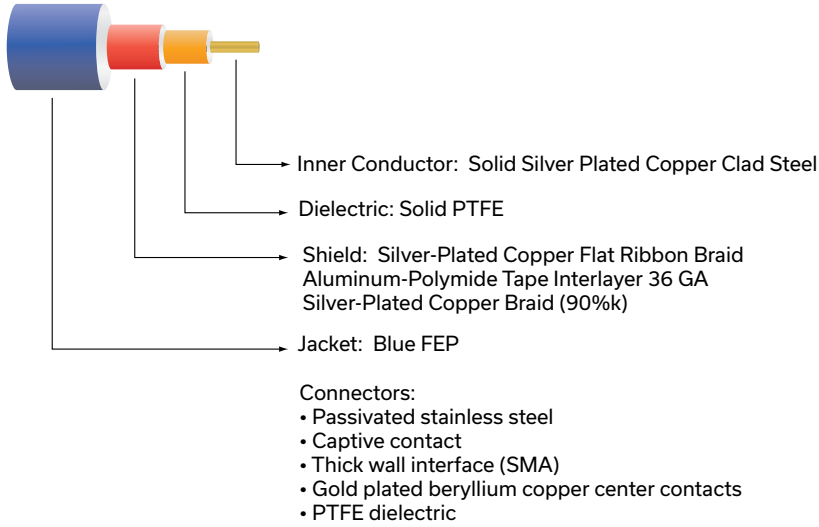
Test Cable

CBL3NMQ-NM+

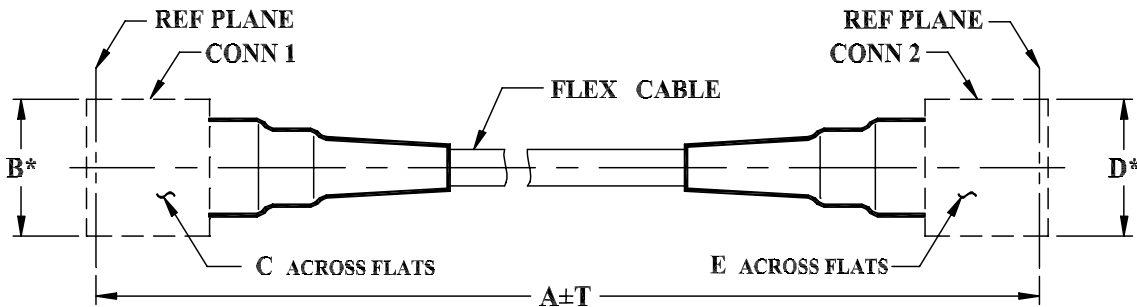
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50Ω 3FT DC to 18 GHz N-Male

CABLE CONSTRUCTION



OUTLINE DRAWING



*OVERALL CONNECTOR OR CABLE & BOOT DIMENSION
(CONNECTOR SHAPE MAY VARY)

OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	T	wt		
Feet	Meters	.88	.750	.88	.750	Feet	Meters	grams
3	0.91	22.35	19.05	22.35	19.05	0.09	0.03	156





QUICK-CONNECT

Test Cable

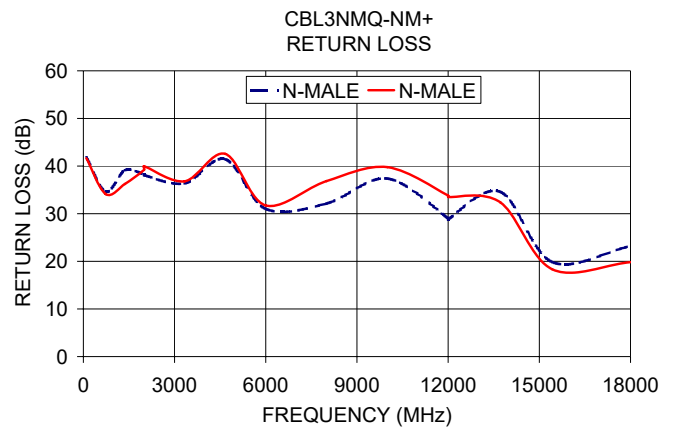
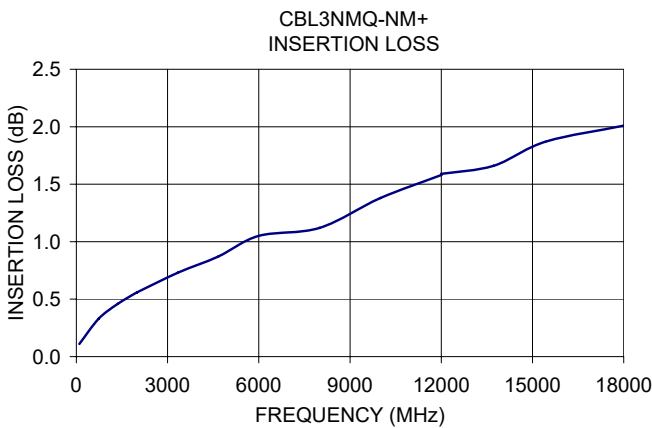
CBL3NMQ-NM+

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50Ω 3FT DC to 18 GHz N-Male

TYPICAL PERFORMANCE DATA

Frequenc (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		N-MALE	N-MALE
50.00	0.09	40.93	41.32
1000.00	0.38	37.39	36.61
2300.00	0.59	26.59	26.47
2500.00	0.61	38.30	36.26
3000.00	0.67	31.25	30.90
4000.00	0.79	26.52	27.35
5000.00	0.89	30.23	30.39
6000.00	0.97	33.81	33.27
7000.00	1.09	24.84	23.76
8000.00	1.14	40.89	31.02
9000.00	1.25	23.83	23.36
10000.00	1.32	32.59	30.72
12000.00	1.47	35.49	32.01
15000.00	1.69	23.05	22.15
18000.00	1.93	30.98	29.50



- NOTES**
- A. 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.
 - B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 - C. 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/terms/viewterm.html



Test Cable, N-Male/N-Male

CBL3NMQ-NM+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	N-MALE 1 RETURN LOSS (dB)	N-MALE 2 RETURN LOSS (dB)
100	0.11	41.82	41.64
733	0.33	34.61	34.13
1367	0.46	39.12	36.25
2000	0.56	38.24	39.23
2000	0.56	38.10	39.98
2001	0.56	37.95	38.75
2001	0.56	37.79	38.53
3334	0.73	36.36	36.80
4667	0.87	41.47	42.55
6000	1.05	31.02	31.74
6000	1.05	30.99	31.71
6001	1.05	30.97	31.70
6001	1.05	30.96	31.73
8001	1.12	32.15	36.85
10000	1.38	37.38	39.77
12000	1.58	29.06	33.80
12000	1.58	29.05	33.73
12001	1.59	28.93	33.69
12001	1.59	28.85	33.52
12858	1.57	24.61	23.94
13715	1.66	34.60	32.39
14572	1.67	23.63	24.49
15429	1.87	19.85	18.32
16286	2.01	30.45	28.91
17143	2.02	24.81	23.86
18000	2.01	23.20	19.84

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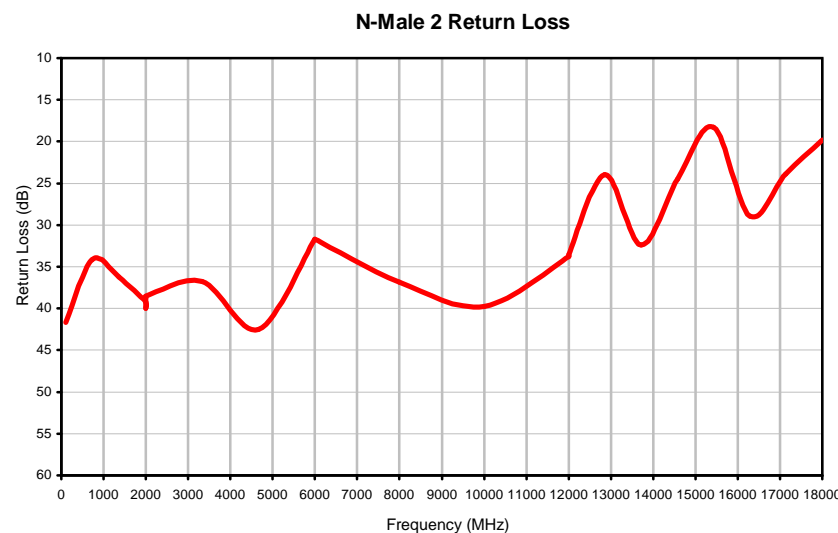
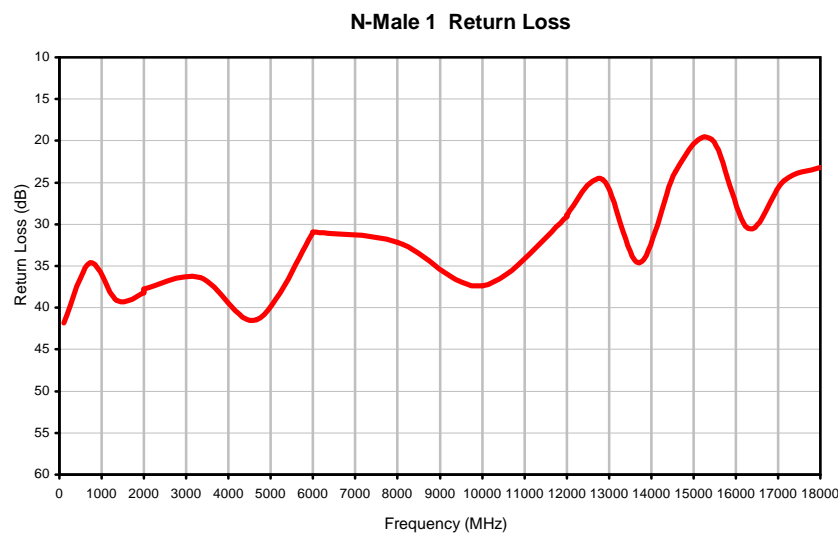
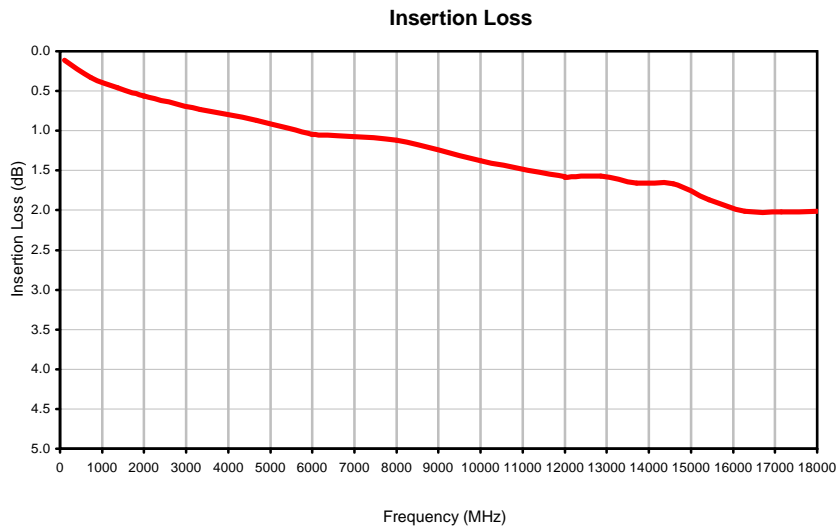
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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



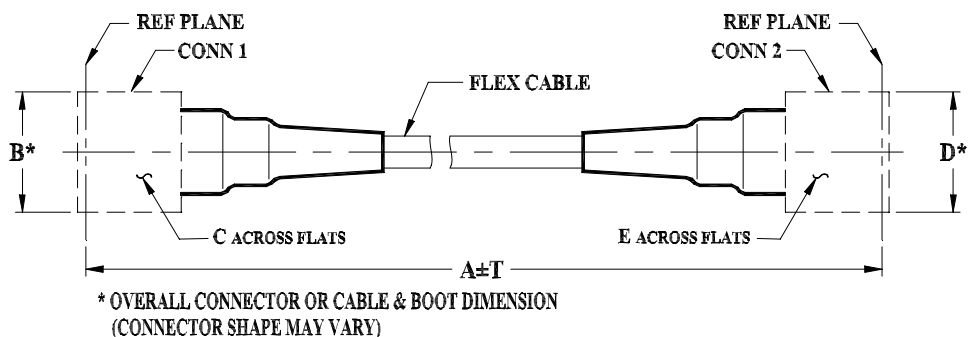
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves



Outline Dimensions



GM1106 SERIES
N MALE (CONN-1)
N MALE (CONN-2)

CASE STYLE #	A		B	C	D	E	T		WEIGHT GRAMS
	FEET	METERS					FEET	METERS	
GM1106-1	1.00	.30	.88 (22.35)	.750 (19.05)	.88 (22.35)	.750 (19.05)	.06	.02	117
GM1106-1.5	1.50	.46					.06	.02	127
GM1106-1.64	1.64	.50					.06	.02	129
GM1106-2	2.00	.61					.06	.02	137
GM1106-3	3.00	.91					.09	.03	156
GM1106-3.28	3.28	1.00					.10	.03	161
GM1106-4	4.00	1.22					.12	.04	176
GM1106-4.92	4.92	1.50					.15	.05	193
GM1106-5	5.00	1.52					.15	.05	195
GM1106-6	6.00	1.83					.18	.05	215
GM1106-6.56	6.56	2.00					.20	.06	225
GM1106-7	7.00	2.13					.21	.06	221
GM1106-7.5	7.50	2.29					.23	.07	244
GM1106-8	8.00	2.44					.24	.07	240
GM1106-9	9.00	2.74					.27	.08	273
GM1106-9.84	9.84	3.00					.30	.09	289
GM1106-10	10.00	3.05					.30	.09	293
GM1106-12	12.00	3.66					.36	.11	332
GM1106-13.1	13.12	4.00					.39	.12	353
GM1106-15	15.00	4.57					.45	.14	390
GM1106-16.4	16.40	5.00	.49	.15	417				
GM1106-20	20.00	6.10	.60	.18	488				
GM1106-25	25.00	7.62	.75	.23	585				
GM1106-30	30.00	9.14	.90	.27	683				
GM1106-50	50.00	15.24	1.50	.46	1073				
GM1106-131	131.23	40.00	3.94	1.20	2656				

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
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 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	- - -