



# Test Cable

# CBL-0.5M-NMNM+

50Ω 0.5M 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
	88W Max. at 18 GHz
Jacket	Clear FEP

## Features

- RoHS compliant
- 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\*

## 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

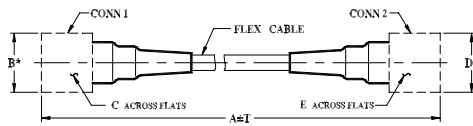
CASE STYLE: GM1106-1.64

Connectors	Model	Price	Qty.
Conn1 N-MALE	Conn2 N-MALE	CBL-0.5M-NMNM+	\$101.95 ea. (1-9)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

## Outline Drawing

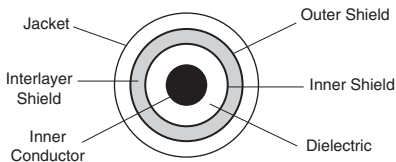


\*OVERALL CONNECTOR OR CABLE & BOOT DIMENSION (CONNECTOR SHAPE MAY VARY)

## Outline Dimensions (inch/mm)

A	B	C	D	E	T	wt		
Feet	Meters	.88	.750	.88	.750	Feet	Meters	grams
1.64	0.50	22.35	19.05	22.35	19.05	0.06	0.02	129

## 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	
<ul style="list-style-type: none"> <li>• passivated stainless steel</li> <li>• captive contact</li> <li>• thick wall interface (SMA)</li> <li>• gold plated beryllium copper center contacts</li> <li>• PTFE dielectric</li> </ul>	

## 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.

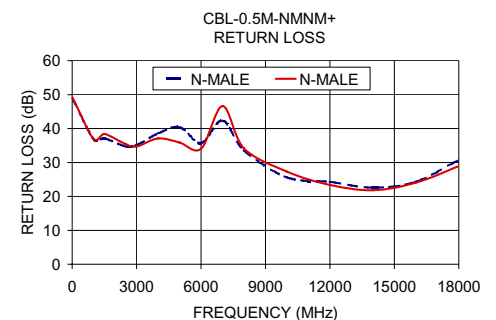
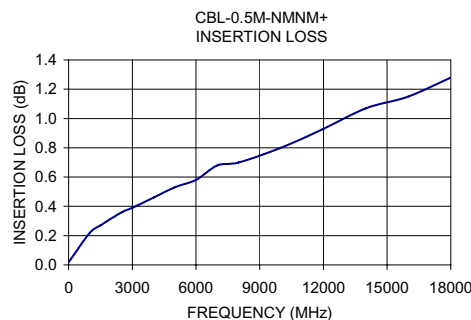
## Electrical Specifications at 25°C

FREQ. (GHz)	LENGTH (M)	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	0.5	0.3	0.5	0.6	0.9	0.9	1.2	1.2	1.5	30	23	30	20	27	17	27	17

Custom sizes available, consult factory.

## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		N-MALE	N-MALE
10.00	0.02	48.87	49.24
1000.00	0.22	36.84	36.81
1500.00	0.27	37.14	38.37
2500.00	0.36	34.71	35.39
3000.00	0.39	35.10	34.70
4000.00	0.46	38.53	37.08
5000.00	0.53	40.41	35.86
6000.00	0.58	35.72	34.05
7000.00	0.68	42.31	46.61
8000.00	0.70	33.54	34.16
10000.00	0.80	25.61	27.32
12000.00	0.93	24.27	23.40
14000.00	1.07	22.57	21.83
16000.00	1.15	24.30	24.01
18000.00	1.28	30.74	28.94



ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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](http://www.minicircuits.com/MCLStore/terms.jsp).

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