

Coaxial Cable

MC-8SMNB+

 50Ω 8 inch DC to 12 GHz

Description

- Wideband frequency coverage, DC to 18 GHz
- Low Loss, 0.42 dB at 12GHz
- Excellent Return Loss, 20 dB at 12 GHz
- 8 mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation.



Model No.	MC-8SMNB+			
Connectors	SMA-Male to			
	N-Female Bulkhead			

APPLICATIONS

- Communication receivers and transmitters
- Military and aerospace system
- Environmental and test chambers
- RF systems

PRODUCT OVERVIEW

Microcircuits series coaxial cables are ideal for integrating rack-mounted coaxial components and sub-assemblies in tight spaces and dense system configurations. N-Type female bulkhead connector at one end is equipped with a nickle -plated brass flange for secure connections to rack mounted equipment. SMA -connector has a passivated stainless steel coupling nut over a gold-plated connector body. The outer shield is tin-soaked copper braid, which minimizes signal leakage with high flexibility for easy bending, and dielectric is low loss PTFE. MC-SMNB+ series coaxial cables are available in various lengths for different system requirements.

KEY FEATURES

Features	Advantages
Excellent Return Loss	Typical return loss of 23 dB to 6 GHz and 19 dB to 12 GHz makes the MC- SMNB+ series ideal for interconnecting a wide variety of RF components while minimizing VSWR ripple contribution due to mating cables & connectors.
High Power Handling Capability: • 546 W at 0.5 GHz • 90 W at 12 GHz	Micro-Circuits MC- SMNM+ series cables can support medium to high RF power levels and can be used in the transmit path. (NOTE: power rating at sea-level).
Built-in Anti-torque Nut	Supports the connector bodies during installation, preventing stress to the connector/cable interface.



Coaxial Cable

50Ω 8 inch DC to 12 GHz

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		12	GHz
Length			inches		
	DC - 2	_	0.13	0.30	
Insertion Loss	2 - 6	_	0.26	0.60	dB
	6 - 10	_	0.31	0.75	
	10 - 12.5	_	0.32	0.95	
Return Loss	DC - 2	22.0	32.0	_	
	2 - 6	17.0	19.0	_	
	6 - 10	17.0	18.0	_	dB
	10 - 12	17.0	19.0	_	

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +105°C
Storage Temperature	-55°C to +105°C
	546W at 0.5 GHz
	387W at 1 GHz
Power Handling at 25°C,Sea Level	273W at 2 GHz
	156W at 6 GHz
	121W at 10 GHz
	110W at 12 GHz



Coaxial Cable

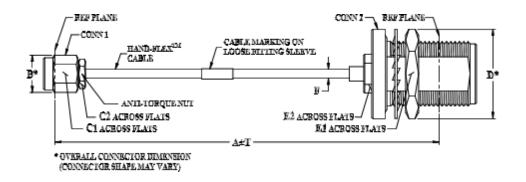
MC-8SMNB+

50Ω 8 inch DC to 12 GHz

CABLE CONSTRUCTION



OUTLINE DRAWING



OUTLINE DIMENSIONS (In ch)

Α	В	C1	C2	D	E1	E2	F	Т
8.0	.36	.313	.250	.87	.750	.531	.163±.004	.10
203.20	9.14	7.95	6.35	22.10	19.05	13.49	4.14±0.10	2.54

Micro-Circuits