

Coaxial Cable

MC-6SMNM+

 50Ω 6 inch DC to 18 GHz

Description

- Wideband frequency coverage, DC to 18 GHz
- Low Loss, 0.52 dB at 18 GHz
- Excellent Return Loss, 23 dB at 18 GHz
- 8 mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation.



Model No.	MC-6SMNM+
Connectors	SMA-Male to N-Male

APPLICATIONS

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

PRODUCT OVERVIEW

Microcircuits MC- SMNM+ series coaxial cables are ideal for integrating coaxial components and sub-systems in tight spaces and dense system configurations . SMA to N-Type connection avoids need for an adapter between components with SMA -F and N-F connection ports , reducing system cost and improving reliability . Microcircuits coaxial cables have the advantages of wide frequency range and excellent return loss and insertion loss. Available in a variety of lengths.

KEY FEATURES

Features	Advantages			
Excellent Return Loss	Typical return loss of 25 dB to 6 GHz and 18 dB to 18 GHz makes the MC- SMNM+ 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 18 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.			
SMA-Male / N-Male connectors	Eliminates need for adapter when connecting to SMA-F and N-F connectors, reducing cost and improving reliability.			



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ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		18	GHz
Length			6		inches
Insertion Loss	DC - 2	_	0.10	0.28	
	2 - 6	_	0.25	0.50	dB
	6 - 10	_	0.33	0.66	
	10 - 18	_	0.67	0.91	
Return Loss	DC - 2	23	31	_	
	2 - 6	23	25	_	
	6 - 10	17	21	_	dB
	10 - 18	17	19	_	

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings		
Operating Temperature	-55°C to +105°C		
Storage Temperature	-55°C to +105°C		
Power Handling at 25°C,Sea Level	546W at 0.5 GHz		
	387W at 1 GHz		
	273W at 2 GHz		
	156W at 6 GHz		
	121W at 10 GHz		
	90W at 18 GHz		

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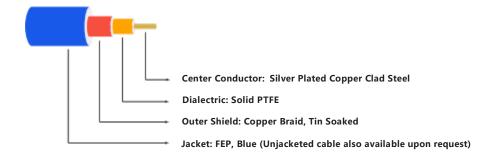


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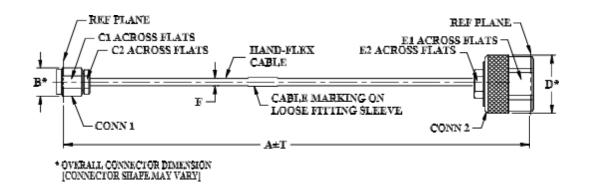
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CABLE CONSTRUCTION



OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch)

Α	В	C1	C2	D	E1	E2	F	Т
6.0	.36	.313	.250	.88	.750	.375	.163±.004	.05
152.40	9.14	7.95	6.35	22.35	19.05	9.53	4.14±0.10	1.27

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