



## FEATURES

- Wideband frequency coverage, DC to 18 GHz
- Low Loss, 0.64 dB at 18 GHz
- Excellent Return Loss, 28 dB at 18 GHz
- Hand formable to almost any custom shape without special bending tools
- 8mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation
- Insulated outer jacket standard<sup>1</sup>
- Ideal for interconnect of assembled systems

## APPLICATIONS

- Replacement for custom bent 0.141" semi-rigid cables
- Communication Receivers and Transmitters
- Military and Aerospace System
- Environmental and Test Chambers

*Generic photo used for illustration purposes only*

<b>Model No.</b>	141-12NM+
<b>Case Style</b>	KQ1637-12
<b>Connectors</b>	N type-Male

**+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 <sup>2</sup>			12		inches
Insertion Loss	DC - 2	—	0.11	0.40	dB
	2 - 6	—	0.39	0.74	
	6 - 12	—	0.53	0.98	
	12 - 18	—	0.69	1.37	
Return Loss	DC - 2	23	44	—	dB
	2 - 6	23	33	—	
	6 - 12	17	33	—	
	12 - 18	17	26	—	

1. Unjacketed cable also available upon request.

2. Custom sizes available, consult factory

## 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

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



**HAND FLEX™**

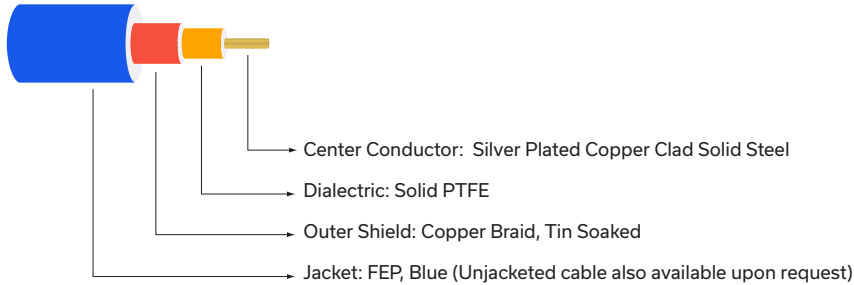
# Coaxial Cable

**141-12NM+**

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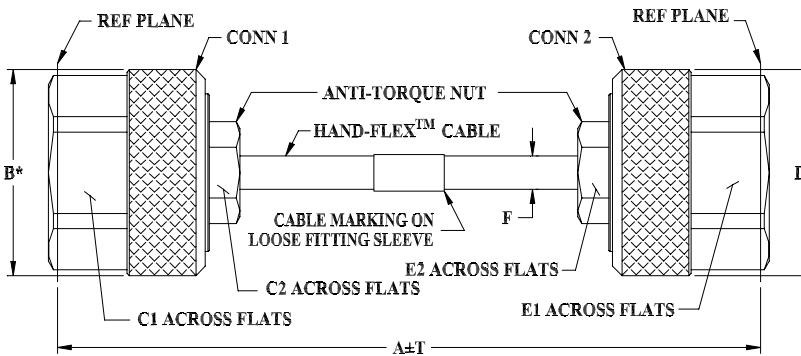
50Ω 12 inch DC to 18 GHz N type-Male

## CABLE CONSTRUCTION



Connectors: Coupling Nut: Brass, Nickel Plated  
 Body: Brass, Nickel Plated  
 Center Pin: Brass, Gold Plated

## OUTLINE DRAWING



\* OVERALL CONNECTOR DIMENSION  
 (CONNECTOR SHAPE MAY VARY)

## OUTLINE DIMENSIONS (Inch/mm)

A	B	C1	C2	D
12.00	0.88	0.750	0.375	0.88
304.80	22.352	19.05	9.53	22.35
E1	E2	F	T	wt
0.750	0.375	.163±.004	0.10	grams
19.05	9.53	4.14±0.10	2.54	75.72

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# Coaxial Cable

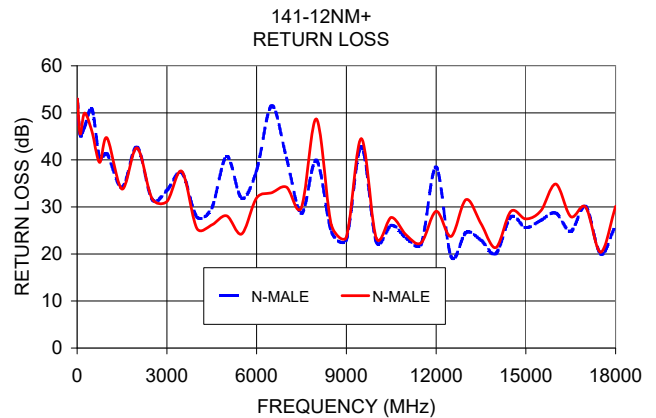
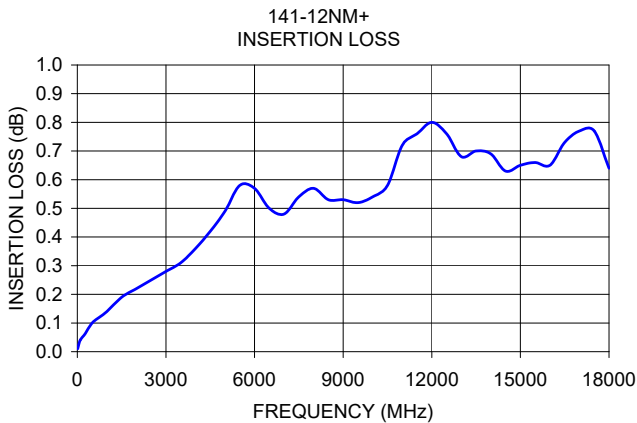
## 141-12NM+

Mini-Circuits

50Ω 12 inch DC to 18 GHz N type-Male

### TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		N-Male	N-Male
10.0	0.01	52.86	52.98
1000.0	0.14	41.30	44.66
1500.0	0.19	34.13	33.79
2500.0	0.25	31.66	31.82
4000.0	0.36	27.88	25.44
5000.0	0.49	40.75	28.12
6000.0	0.57	37.76	31.91
7000.0	0.48	40.38	34.20
8000.0	0.57	39.91	48.66
9000.0	0.53	23.08	23.60
10000.0	0.54	22.62	23.40
12000.0	0.80	38.45	29.07
14000.0	0.69	20.08	21.37
16000.0	0.65	28.71	34.87
18000.0	0.64	26.08	30.13



#### 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.
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