

141SMR Model Series

DC to 18 GHz 50Ω



CASE STYLE: KQ1632-XX

XX= cable length in inches

The Big Deal

- Hand Formable
- Tight Bend Radius
- Right Angle SMA Connectors
- Ideal for interconnect of assembled systems

Product Overview

The 141 Series Hand-Flex Coaxial Cables are ideal for interconnection of coaxial components or sub-systems. The construction includes a silver-plated copper-clad steel center conductor which maintains the shape after bending. The outer shield is copper braid, tin soaked, which minimizes signal leakage and at the same time flexible for easy bend. Dielectric is low loss PTFE. Connectors have passivated stainless-steel coupling nut over a gold plated connector body and gold plated, brass center conductor.

Kev Features

Feature	Advantages
Hand-Formable RF Cables	The 141 Series Hand-Flex cables are hand formable making them ideal for use integrating coaxial components and sub-assemblies without the need for special cable-bending tools and alleviating the risk of damage during the bending process typical of semi-rigid coaxial cable assemblies.
Tight Bend Radius	Capable of only 8mm bend radius, the 141 Hand Flex series is able to make connections in tight spaces making these cables ideal for dense system integration
Excellent Return loss: • 27 dB typ. at 6 GHz • 20 dB typ. at 18 GHz	The 141 Series Hand-Flex Cables are ideally suited for interconnecting a wide variety of RF components while minimizing VSWR ripple contribution due to mating cables & connectors.
Good Power Handling Capability: • 546W at 0.5 GHz • 90W at 18 GHz	Mini-Circuits 141 Series can support medium to high RF power levels enabling these cables to be used in the transmit path. NOTE: power rating is at sea-level altitudes.
Built in Anti-torque nut	Mini-Circuits' 141 Series Hand Flex cables include an anti-torque feature to support the connector body during installation alleviating risk of stress to the connector/cable interface.
Jacketed	Standard 141 Series cables include a blue FEP insulator jacket reducing the risk of accidental shorting of DC power lines or active pins during installation and operation.
Right angle SMA connectors	Avoids multiple right angle bends and improves reliability.

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 manufacture.

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Coaxial Cable

141-3SMR+

3 inch DC to 18 GHz 50Ω

Maximum Ratings

-55°C to 105°C		
-55°C to 105°C		
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.

- · Wideband frequency coverage, DC to 18 GHz
- Low Loss, 0.53 dB typ. at 18 GHz
- Excellent Return Loss, 20 dB typ. 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

Replacement for custom bent 0.141" semi-rigid cables

Insulated outer jacket standard

Applications

· Ideal for interconnect of assembled systems

 Communication receivers and transmitters Military and aerospace system · Environmental and test chambers



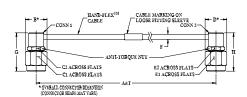
CASE STYLE: KQ1632-3

Connectors	Model
Right Angle SMA-Male	141-3SMR+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



E1	D	C2	C1	В	Α
.313	.36	.250	.313	.36	3.0
7.95	9.14	6.35	7.95	9.14	76.20
wt	т	G, H	F	E2	
grams	.05	.728±.02	.163±.004	.250	
9.23	1.27	40 5.0 5	4.14±0.10	0.05	

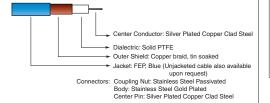
Outline Dimensions (inch)

.010	.00	.230
7.95	9.14	6.35
wt	Т	G, H
grams	.05	.728±.02
9.23	1.27	18.5±0.5
9.23	1.27	18.5±0.5

Typ. 3	Max. 18	Unit GHz
	18	
		inches
0.0	0.3	dB
0.1	0.6	
0.1	0.7	
0.2	0.9	
41	_	
37	_	dB
29	_	
	_	
	41 37 29	41 — 37 —

Electrical Specifications at 25°C

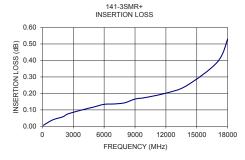
Custom sizes available, consult factory.

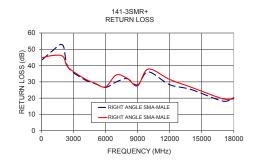


Cable Construction

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
		Right Angle SMA-Male	Right Angle SMA-Male	
100	0.01	44	45	
1000	0.04	49	46	
2000	0.06	53	46	
2500	0.08	39	39	
4000	0.10	32	32	
5000	0.12	29	29	
6000	0.13	27	27	
7000	0.14	30	34	
8000	0.14	32	32	
9000	0.17	28	28	
10000	0.17	36	38	
12000	0.20	28	31	
14000	0.25	25	27	
17000	0.39	18	20	
18000	0.53	20	20	





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