

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	Supporting typical return loss of 33 dB to 6 GHz and 21 dB to 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.

C. The parts covered by this specification document are subject to Mini-Circuit's applicable established test performance criteria and manufacture. Ferrormance and updany attributes and contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document 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



Coaxial Cable

141-7SMR+

7 inch DC to 18 GHz

Maximum Ratings

	_		
Operating Temperature	-55	°C	to 105°C
Storage Temperature	-55	°C	to 105°C
Power Handling at 25°C,	546W	at	0.5 GHz
Sea Level	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, 0.45 dB at 18 GHz
- Excellent Return Loss, 18 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

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



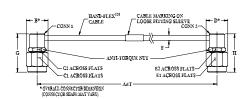
CASE STYLE: KQ1632-7

Connectors	Model
Right Angle SMA-Male	141-7SMR+

+RoHS Compliant

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

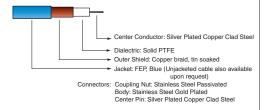
Outline Drawing



Α	В	C1	C2	D	E1
7.0	.36	.313	.250	.36	.313
177.80	9.14	7.95	6.35	9.14	7.95
	E2	F	G, H	Т	wt
	.250	.163±.004	.728±.02	.10	grams
	6 35	4 14+0 10	18 5+0 5	2 54	13.8

Outline Dimensions (inch)

Cable	Construction



Electrical Specifications at 25°C

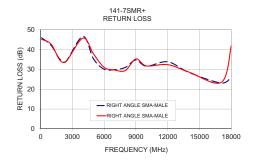
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
Length ¹			7		inches
Insertion Loss	DC - 2	_	0.12	0.35	dB
	2 - 6	_	0.22	0.62	
	6 - 10	_	0.29	0.82	
	10 - 18	_	0.45	1.13	
Return Loss	DC - 2	20	31	_	
	2 - 6	20	29	_	dB
	6 - 10	16	25	_	
	10 - 18	16	18	_	

1. Custom sizes available, consult factory.

Typical Performance Data

ght Angle MA-Male
45.2
42.7
34.8
33.9
45.8
37.8
31.0
29.7
29.4
35.3
31.8
32.4
28.7
23.5
41.9





- 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 ins.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Terms"): Purchases of this part. Ferrormance and updany authorities and contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are subject to Mini-Circuit's 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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Cable Assemblies category:

Click to view products by Mini-Circuits manufacturer:

Other Similar products are found below:

73-6352-10 73-6353-3 73-6364-6 R285001001 R288940004 R288940005 145111-05-12.00 1661-C-24 1801171170914KE 24P104C24J1-012 24P104C24P1-006 24P104C24P1-018 24P204C24J1-003 172-2150-EX 1800920920914PJ FCB-3030-ALT 21117-046 21117-050 PCX-24-50 24P103C24P2-003 25P203C25P2-003 PTWY-24-78 R284008001 R285001021 R285426000 R288940003 R288940008 RF179-74BJ3-77RP1-0305 4814-BB-24 5260-72 JT2N1-CL1-1F DLP-COAX1 4814-K-48 115101-09-06.00 CCNTN2-MM-LL335-26 73-6351-25 73-6352-3 73-6353-25 1800920920610PJ GD0BQ0BQ024.0 1-3636-600-5210 TL8A-11SMA-11SMA-01500-51 R284C0351060 R288940009 R288040009 R284C0351028 R288940002 9702-1SL-1 PT82NSMA 73-6353-10 R285020301W