

141-24SMRSM+

Mini-Circuits 50Ω 40 inch DC to 18 GHz Right Angle SMA-Male to SMA-Male

THE BIG DEAL

- Right-Angle connection capable of DC to 18 GHz
- Low Loss, 1.55 dB at 18 GHz
- Excellent Return Loss, 20 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
- Ideal for interconnect of assembled systems



Generic photo used for illustration purposes only

Model No.	141-24SMRSM+
Case Style	KQ1612-24
Connectors	Right Angle SMA-Male to SMA-Male

+RoHS Compliant The +Suffix identifies RoHS Compliance. iee our website for methodologies and qualifications

APPLICATIONS

- Replacement for custom bent 0.141" semi-rigid cables
- Communication receivers and transmitters
- Military and aerospace system
- Environmental and test chambers

PRODUCT OVERVIEW

The 141 SMRSM Series Hand-Flex[™] Coaxial Cables are ideal for interconnection of coaxial components or sub-systems equipment. 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 Silver Plated Copper Steel center conductor.

KEY 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 8 mm	Capable of only 8 mm bend radius, the 141 Hand Flex™ series is able to make connections in tight spaces mak- ing these cables ideal for dense system integration.
18 GHz Right-Angle Connector	Using a custom right-angle connector, the 141 SMRSM Series is able to meet system requirements of 90° con- nections without bending and sacrificing high frequency performance up to 18 GHz.
Excellent Return Loss	Supporting typical return loss of 26 dB to 6 GHz and 19 dB to 18 GHz, the 141 Series Hand-Flex Cables are ide- ally suited for interconnecting a wide variety of RF components while minimizing VSWR ripple contribution due to mating cables & connectors.
Good Power Handling Capability: • 546 W at 0.5 GHz • 90 W at 18 GHz	Mini-Circuits' 141 Cable series can support medium to high RF power levels enabling these cables to be used in the transmit path. (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 straight SMA connec- tor body during installation alleviating risk of stress to the connector/cable interface
Jacketed and Unjacketed options	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. Unjacketed versions are available upon request.







Mini-Circuits

50Ω

40 inch DC to 18 GHz Right Angle SMA-Male to SMA-Male

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		18	GHz
Length ¹			24		inches
	DC - 2	—	0.39	0.7	
Insertion Loss	2 - 6	_	0.73	1.2	dB
Insertion Loss	6 - 10	_	1.0	1.5	ав
	10 - 18	_	1.55	2.2	
	DC - 2	20	36	_	
Return Loss	2 - 6	20	31	_	dB
Return Loss	6 - 10	16	26	_	uВ
	10 - 18	16	20	_	

1. Custom sizes available, consult factory

ABSOLUTE MAXIMUM RATINGS

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



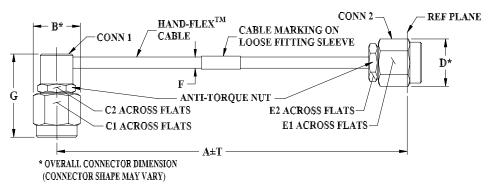


ircuits 50Ω 40 inch DC to 18 GHz Right Angle SMA-Male to SMA-Male



Coupling Nut: Stainless Steel Passivated Body: Stainless Steel Gold Plated Center Pin: Silver Plated Copper Clad Steel

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch)

Α	В	C1	C2	D	E1
24.0	.36	.313	.250	.36	.313
609.60	9.14	7.95	6.35	9.14	7.95
E2	F		G	т	wt
	F .141±.003	.163±.004	G .728±.02	•	





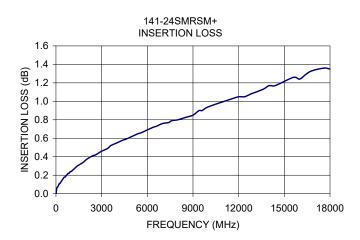
Mini-Circuits

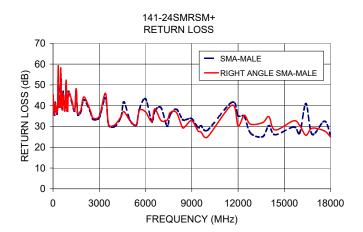
40 inch

DC to 18 GHz Right Angle SMA-Male to SMA-Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency	Insertion Loss	Return Loss (dB)				
(MHz)	(dB)	SMA-Male	Right Angle SMA-Male			
10.0	0.00	42.8	45.3			
1000.0	0.24	46.8	46.3			
1800.0	0.34	37.0	37.9			
2400.0	0.41	37.2	38.0			
4000.0	0.55	30.0	30.7			
5000.0	0.62	32.8	32.8			
6000.0	0.69	43.3	37.0			
7000.0	0.76	39.0	32.9			
8000.0	0.80	38.3	36.7			
9000.0	0.85	33.7	32.8			
10000.0	0.94	28.1	24.9			
12000.0	1.05	35.1	30.3			
14000.0	1.17	30.4	34.7			
16000.0	1.24	26.9	30.5			
18000.0	1.35	25.7	24.9			









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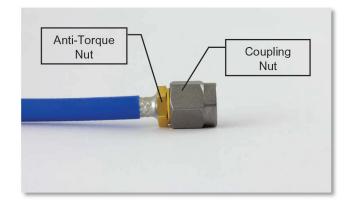
24 inch DC to 18 GHz Right Angle SMA-Male to SMA-Male

PROPER CABLE CONNECTION USING ANTI-TORQUE NUT

Mini-Circuits 141-series HandFlex™ interconnect cables are constructed with an anti-torque nut adjacent to the connector coupling nut. When used properly, this feature prevents possible damage to the cable due to torqueing and twisting when tightening the cable connector.

TO PROPERLY TIGHTEN THE CABLE CONNECTOR:

1) The cable connector includes a coupling nut which rotates to fasten the connector, and an anti-torque nut, which is fixed to prevent the cable from twisting during connection.



2) To properly tighten the cable, use a standard 1/4-inch open end wrench to brace the anti-torque nut.

3) Using a 5/16-inch open end wrench, rotate the coupling nut clockwise to tighten the cable connector.

Rotate Clockwise Hold Steady Mini-Circuits USB-4SPDT-A18

*NOTE: Mini-Circuits recommends using a 5/16-inch open end wrench calibrated to 8 inch-pounds maximum torgue to prevent damage due to over-torqueing the connector.

NOTES

- 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
- В. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C.
- 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/terms/viewterm.html



Hand-Flex Coaxial Cable

SMA-Male to Right Angle SMA-Male

Typical Performance Data

(MHz) (dB) (dB) (dB) 10.0 0.00 42.8 45.3 50.0 0.06 36.8 37.4 100.0 0.07 35.6 35.7 140.0 0.08 41.6 41.2 220.0 0.111 37.3 37.5 260.0 0.111 36.0 36.4 300.0 0.12 39.8 40.6 340.0 0.14 39.5 39.5 380.0 0.14 39.5 39.6 500.0 0.17 58.1 57.8 550.0 0.18 382.2 37.9 650.0 0.21 37.5 37.5 800.0 0.22 40.6 40.1 850.0 0.22 50.6 52.3 900.0 0.23 37.9 38.1 1000.0 0.24 37.4 37.3 1000.0 0.31 47.0 48.2 240.0 0.41 37.2 38.0	FREQUENCY	INSERTION LOSS	SMA-MALE RETURN LOSS	RIGHT ANGLE SMA-MALE RETURN LOSS
50.0 0.06 36.8 37.4 100.0 0.07 35.6 35.7 140.0 0.08 41.6 41.2 220.0 0.11 37.3 37.5 260.0 0.11 37.3 37.5 260.0 0.12 39.8 40.6 340.0 0.13 54.6 59.3 380.0 0.144 39.5 39.5 460.0 0.16 39.6 39.6 500.0 0.17 81.1 57.8 550.0 0.18 40.1 39.8 600.0 0.18 38.2 37.9 650.0 0.21 37.5 37.5 700.0 0.20 42.3 43.2 750.0 0.21 37.5 37.5 800.0 0.22 60.6 52.3 900.0 0.23 37.9 38.1 950.0 0.24 46.8 46.3 100.0 0.34 37.0 37.3 1000.0 0.34 37.0 37.3 1000.0 0.34 37.0 37.3 2000.0 0.34 37.0 37.3 2000.0 0.46 34.2 34.9 2400.0 0.46 34.2 34.9 3000.0 0.65 30.0 30.7 400.0 0.55 30.0 30.7 400.0 0.55 30.6 30.8 5000.0 0.66 38.3 37.0 4000.0 0.55 30.6 30.8 <th>(MHz)</th> <th>(dB)</th> <th>(dB)</th> <th>(dB)</th>	(MHz)	(dB)	(dB)	(dB)
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3400.0	0.49	43.8	46.0
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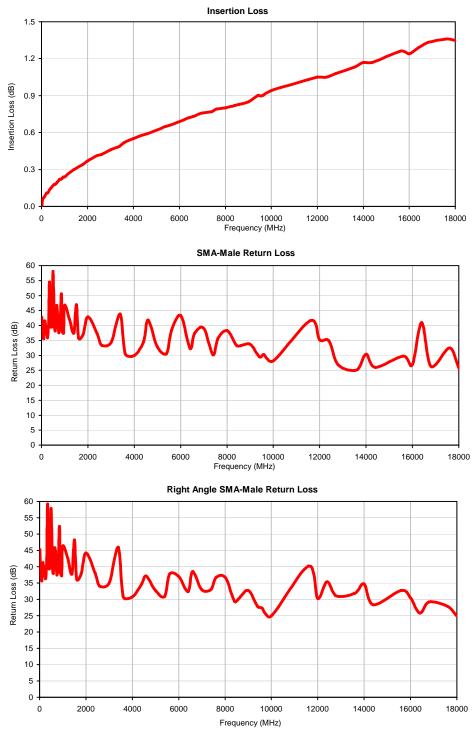
REV. X1 P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site 141-24SMRSM+ The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com 5/5/2011

Page 1 of 1

Hand-Flex Coaxial Cable

SMA-Male to Right Angle SMA-Male









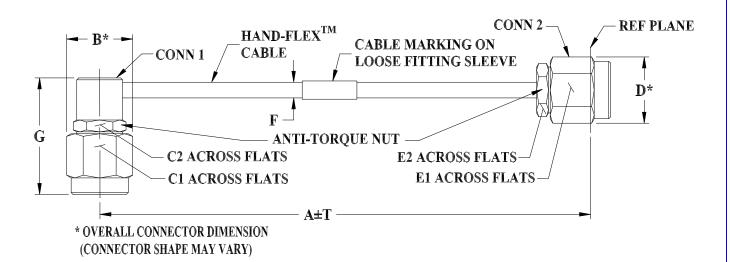
REV. X1 P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com 5/5/2011

Page 1 of 1

Case Style

KQ1612

Outline Dimensions



KQ1612 SERIES RIGHT ANGLE SMA MALE (CONN-1)

SMA MALE (CONN-2)

		(1 (2)		r	1	T						1			1
CASE	I	4]	F			Т		WEIGHT		
STYLE #	INCH	ММ	В	C1	C2	D	E1	E2	141U- ASMRSM+	141- ASMRSM+	G	Н	INCH	MM	GRAMS +/- 2gms
KQ1612-3	3.00	76.20											.05	1.27	10.13
KQ1612-4	4.00	101.60											.05	1.27	11.27
KQ1612-5	5.00	127.00											.05	1.27	12.42
KQ16125.5	5.50	139.70											.05	1.27	12.99
KQ1612-6	6.00	152.40											.05	1.27	13.56
KQ1612-7	7.00	177.80											.10	2.54	14.70
KQ1612-8	8.00	203.20	.36 (9.14)	.313 (7.95)	.250 (6.35)	.36 (9.14)	.313 (7.95)	.250 (6.35)	.141±.003 (3.58±0.07)	.163±.004 (4.14±0.10)	.728±.020 (18.50±0.50)		.10	2.54	15.84
KQ1612-9	9.00	228.60						(<i>)</i>	(,		(.10	2.54	16.99
KQ1612-10	10.00	254.00											.10	2.54	18.13
KQ1612-11	11.00	279.40											.10	2.54	19.27
KQ1612-12	12.00	304.80											.10	2.54	20.42
KQ1612-13	13.00	330.20											.15	3.81	21.56
KQ1612-14	14.00	355.60											.15	3.81	22.70

Unless otherwise specified dimensions are in inches (mm). Tolerances: 2Pl. ±.03; 3Pl. ±.015

Note:

- 1. 141 Hand-FlexTM Coaxial Cable.
- 2. "A" represents length of cable.



INTERNET http://www.minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010 Mini-Circuits ISO 9001 & ISO 14001 Certified

Case Style

KQ1612

Outline Dimensions

KQ1612 SERIES RIGHT ANGLE SMA MALE (CONN-1) SMA MALE (CONN-2)

		(1) <i>(2)</i>													
CASE	I	A	_					F				Т		WEIGHT	
STYLE #	INCH	MM	В	C1	C2	D	E1	E2	141U- ASMRSM+	141- ASMRSM+	G	Н	INCH	MM	GRAMS +/- 2gms
KQ1612-15	15.00	381.00											.15	3.81	23.85
KQ1612-16	16.00	406.40											.15	3.81	24.99
KQ1612-17	17.00	431.80											.15	3.81	26.13
KQ1612-18	18.00	457.20											.15	3.81	27.27
KQ1612-20	20.00	508.00											.15	3.81	29.56
KQ1612-24	24.00	609.60											.15	3.81	34.13
KQ1612-32	32.00	812.80	.36 (9.14)	.313 (7.95)	.250 (6.35)	.36 (9.14)	.313 (7.95)	.250 (6.35)	.141∀.003 (3.58∀0.07)	.163∀.004 (4.14∀0.10)	.728∀.020 (18.50∀0.50)		.20	5.08	43.28
KQ1612-36	36.00	914.40			(,		(()	(5156761077)	(11110110)	(10.0010.00)		.20	5.08	47.85

Unless otherwise specified dimensions are in inches (mm).

Tolerances: 2Pl. ±.03; 3Pl. ±.015

Mini-Circuits Environmental Specifications ENV52

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec			
Operating Temperature	-55° to 105° C or -55° to 85° C (see datasheet) Ambient Environment	Individual Model Data sheet			
Storage Temperature	-55° to 105° C or -55° to 85° C (see data sheet) Ambient Environment	Individual Model Data Sheet			
Thermal Shock	-55° to 100°C, 100 Cycles	MIL-STD-202F; Method 107G			
Multiple Bend Radius	40 mm, 5 times for 141 series cables 30 mm, 5 times for 086 series cables				
Single Bend Radius	8 mm for 141 series cables 6 mm for 086 series cables				

ENV52 Rev: C 07/06/18 M168814 File: ENV52.pdf

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