

141 SMNB Model Series

DC to 12.5 GHz **50**Ω

CASE STYLE: KQ1669-XX

XX= cable length in inches

The Big Deal

• N-Type (F) Bulkhead Connector to SMA (M)

Hand Formable

- Tight Bend-Radius (8mm min.)
- Ideal for interconnect of assembled systems

Product Overview

141-SMNB-series Hand-Flex coaxial cables are ideal for integrating rack-mounted coaxial components and subassemblies in tight spaces and dense system configurations. N-Type female bulkhead connector at one end is equipped with a nickel-plated brass flange for secure connections to rack mounted equipment. SMA-connector has a passivated stainless-steel coupling nut over a gold-plated connector body. The outer shield is tin-soaked copper braid, which minimizes signal leakage with high flexibility for easy bending, and dielectric is low loss PTFE. 141-SMNB-series Hand-Flex coaxial cables are available in various lengths for different system requirements.

Feature	Advantages
Single N-Type female bulkhead connector	Eliminates need for a bulkhead adapter and connects directly to the front panel of rack-mounted equipment, improving reliability and reducing system cost.
Hand-formable	141-SMNB-series Hand Flex cables avoid the need for cable-bending tools, alleviating the risk of damage during bending processes typical of semi-rigid cable assemblies.
8mm bend radius	Ideal for making connections in tight spaces and dense system assemblies.
Excellent return loss	Typical return loss of 21 dB to 12.5 GHz or better makes 141-SMNB series cables ideal for connecting 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 • 110W at 12.5 GHz	141-SMNB coaxial cables can support medium to high RF power levels and can be used in the transmit path. (Power rating at sea-level).
Built-in anti-torque nut	Anti-torque feature supports the SMA connector body during installation, preventing stress to the connector/cable interface. Connector interface meets MIL-STD-348.

Key Features

- 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 oritoria and manual the parts covered by this specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are based on Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance oritoria and manual the specification document are subject to Mini-Circuit's applicable established test performance origination document are subject to Mini-Circuit's applicable established test performance origination document are subject to Mini-Circuit's applicable established test performance origination document are subject to Mini-Circuit's applicable established test performance or
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DC to 6 GHz **50**Ω 24 inch

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

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

Features

- Bulkhead Type N connector at one end.
- Low Loss, 0.7 dB at 6 GHz
- Excellent Return Loss, 27 dB at 6 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 standard¹
- · 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

141-24SMNB+



CASE STYLE: KQ1669-24

Connector	rs	Model
Conn1	Conn2	
SMA-Male	N-Female Bulkhead	141-24SMNB+

+RoHS Compliant

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

Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		6	GHz
Length ¹			24		inches
Insertion Loss	DC - 2	—	0.38	0.57	dB
Insertion Loss	2 - 6	—	0.75	1.06	uв
Return Loss	DC - 2	17.7	23	—	dB
neturii Loss	2 - 6	17.7	20	—	ub
Custom sizes susilable, consult factory					

e. consult facto

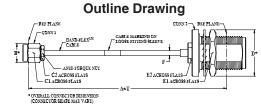
Typical Performance Data Frequency Insertion Loss **Return Loss** (MHz) (dB) (dB) N-Female SMA-Male Bulkhead 100 0.07 30.4 30.8 203 0.10 40.8 42.6 403 0.15 33.4 35.6 603 0.20 30.2 32.0 802 0.23 28.2 29.3 1002 0.27 26.9 27.7 38.0 1109 0.28 41.5 0.29 29.9 1230 30.3 1508 0.33 29.5 30.7 1800 0.36 35.7 35.7 2540 0.43 47.9 53.1 3004 0.48 31.7 30.9 4001 0.56 31.7 32.2 31.4 5101 0.64 32.0 6000 0.73 28.6 27.7 141-24SMNB+ 141-24SMNB+ INSERTION LOSS RETURN LOSS 0.8 60 0.7 (gp) 50 RETURN LOSS (dB) 0.6) 0.6 0.5 0.5 0.4 0.4 0.3 0.2 0.2 0.1 40 30 20 SMA-MALE 10 N-FEMALE 0.1 Bulkhead 0.0 0 0 1000 2000 3000 4000 5000 6000 0 1000 2000 3000 4000 5000 6000 FREQUENCY (MHz) FREQUENCY (MHz)

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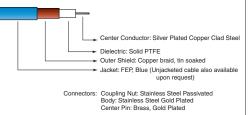
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Outline Dimensions (inch)

Α	в	C1	C2	D
24.0	.36	.313	.250	.87
609.60	9.14	7.95	6.35	22.10
E1	E2	F	т	wt
		F .163±.004		

Cable Construction



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 24P104C24J1

 012
 24P104C24P1-006
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 24P204C24J1-003
 172-2150-EX
 1800920920914PJ
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 21117-046
 21117-050

 PCX-24-50
 24P103C24P2-003
 25P203C25P2-003
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 R285426000
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