

DC to 3 GHz 50Ω

The Big Deal

- Hand-formable to any shape, 8mm min bend radius
- BNC-Male connectors
- Excellent return loss
- Low insertion loss
- Ideal for interconnect of assembled systems



CASE STYLE: KQ2160

Product Overview

141-BM+ series Hand-Flex™ coaxial cables are ideal for interconnecting coaxial components and sub-assemblies in a wide range of systems, including communications, military and aerospace, environmental test chambers and more. The hand-formable cable provides a minimum bend radius of 8mm to accommodate tight layouts without the need for bending tools, adapters or brackets. BNC-male connectors make these cables ideal for connection of assemblies with BNC connector types. 141-BM+ series cables are available in a variety of lengths to meet your system needs.

Key Features

Feature	Advantages	
Hand-formable RF cables	Facilitates the assembly of coaxial systems and sub-systems without the need for special cal bending tools or adapters. Reduces the risk of damage during bending. 8mm bend-radius makes the cable ideal for connections in tight spaces and crowded layouts	
Tight bend-radius, 8mm		
Low insertion loss	Minimizes overall signal path loss.	
Excellent return loss	Minimizes signal reflection and VSWR ripple contribution.	
BNC-Male connectors	Supports easy interconnection of components and equipment in systems with BNC connectypes.	
Good power handling • 546 W at 0.5 GHz • 180W at 3 GHz	Supports medium to high RF power levels used in transmit paths.	

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

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141-10BM+

10 inch DC to 3 GHz 50Ω

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
	180W at 3 GHz

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

Features

- Wideband frequency coverage, DC-3GHz
- · Low Loss, 0.20 dB at 3 GHz
- Excellent Return Loss, 31 dB at 3 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

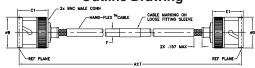
CASE STYLE: KQ2160-10

Connecto	rs	Model
Conn1	Conn2	
BNC-Male	BNC-Male	141-10BM+

+RoHS Compliant

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

Outline Drawing



Applications

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

Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		3	GHz
Length ²			10		inches
Insertion Loss	DC - 3	_	0.15	0.50	dB
Return Loss	DC - 3	19	37	_	dB

- 1. Unjacketed cable also available upon request.
- 2. Custom sizes available, consult factory.

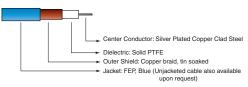
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
		BNC-Male	BNC-Male	
10	0.00	50.21	57.14	
50	0.02	43.57	43.80	
100	0.03	39.58	40.82	
250	0.06	40.70	40.63	
400	0.07	48.89	46.59	
700	0.10	40.36	38.30	
1000	0.12	48.07	50.87	
1150	0.13	38.31	36.20	
1370	0.14	43.52	35.10	
1600	0.15	35.71	39.49	
1820	0.16	33.75	32.50	
2200	0.17	27.83	29.62	
2500	0.19	31.38	41.51	
2800	0.22	24.84	27.07	
3000	0.20	29.02	32.57	

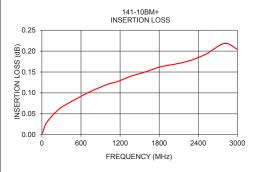
Outline Dimensions (inch)

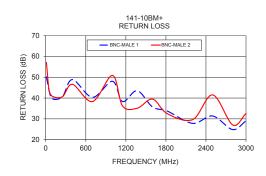
D	C2	C1	В	Α
.57	-	.59	.57	10.0
14.48	-	14.99	14.48	254.00
wt	Т	F	E2	E1
grams	.10	.163±.004	-	.59
31.83	2.54	4.14±0.10	-	14.99

Cable Construction



Connectors: Body & Coupling Nut: Brass, Nickel plated Center Pin: Brass, Gold plated





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