

### DC to 3 GHz $50\Omega$

## 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.

## **Kev Features**

Feature	Advantages			
Hand-formable RF cables	Facilitates the assembly of coaxial systems and sub-systems without the need for special calbending tools or adapters. Reduces the risk of damage during bending.			
Tight bend-radius, 8mm	8mm bend-radius makes the cable ideal for connections in tight spaces and crowded layouts.			
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 connector types.			
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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## 141-6BM+

### DC to 3 GHz $50\Omega$ 6 inch

## **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		
180W at 3 GHz		

Permanent damage may occur if any of these limits are exceeded

### **Features**

- Wideband frequency coverage, DC-3GHz
- Low Loss, 0.13 dB at 3 GHz
- Excellent Return Loss, 25 dB at 3 GHz
- · Hand formable to almost any custom shape without special bending tools
- · 8mm bend radius for tight installations
- Insulated outer jacket standard¹

**Applications** 

· Ideal for interconnect of assembled systems

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

Replacement for custom bent 0.141" semi-rigid cables

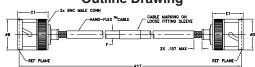
### CASE STYLE: KQ2160-6

Connectors		Model
Conn1	Conn2	
BNC-Male	BNC-Male	141-6BM+

### +RoHS Compliant

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

## **Outline Drawing**



Parameter Condition (GHz) Min. Unit Тур. Max. DC **Frequency Range** 3 GHz Length<sup>2</sup> 6 inches Insertion Loss DC - 3 0.10 0.40 dВ **Return Loss** DC - 3 19 37 dB

Electrical Specifications at 25°C

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

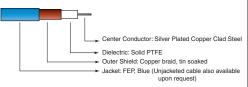
## Outline Dimensions (inch)

D	C2	C1	В	Α
.57	-	.59	.57	6.0
14.48	-	14.99	14.48	152.40
wt	Т	F	E2	E1
grams	.05	.163±.004	-	.59
27.26	1.27	4.14±0.10	-	14.99

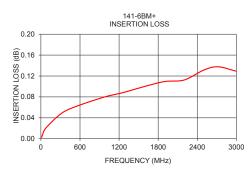
## **Typical Performance Data**

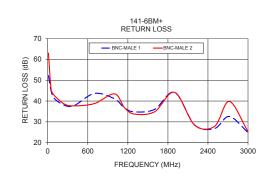
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Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
		BNC-Male	BNC-Male	
10	0.00	52.20	63.06	
50	0.02	44.97	45.72	
100	0.02	41.16	42.62	
250	0.04	37.95	38.53	
400	0.05	37.89	37.68	
700	0.07	43.67	38.80	
1000	0.08	41.09	43.46	
1150	0.08	36.67	36.80	
1300	0.09	34.79	33.72	
1600	0.10	36.00	34.85	
1900	0.11	44.21	44.19	
2200	0.11	28.49	28.46	
2500	0.13	26.82	27.87	
2720	0.14	32.59	39.81	
3000	0.13	24.89	25.34	

## **Cable Construction**



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





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