

DC to 3 GHz 50Ω

The Big Deal

- Hand-formable to any shape, 6mm min bend radius
- BNC-Male connectors
- Excellent return loss
- Low insertion loss
- Ideal for interconnect of assembled systems



CASE STYLE: KP2467

Product Overview

086-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 6mm 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. 086-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 cable-bending tools or adapters. Reduces the risk of damage during bending.
Tight bend-radius, 6mm	6mm 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 • 211W at 0.5 GHz • 80W 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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6 inch DC to 3 GHz 50Ω

Maximum Ratings

maximum matings					
Operating Temperature	-55	°C	to 105°C		
Storage Temperature	-55	°C	to 105°C		
Power Handling at 25°C,	211W	at	0.5 GHz		
Sea Level	150W	at	1 GHz		
	101W	at	2 GHz		
	80W	at	3 GHz		

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

Features

- · Wideband frequency coverage, DC to 3 GHz
- · Low Loss, 0.21 dB at 3 GHz
- Excellent Return Loss, 28 dB at 3 GHz
- · Hand formable to almost any custom shape without special bending tools
- 6mm bend radius for tight installations
- Insulated outer jacket standard¹
- Connector interface, meets MIL-STD-348
- · Ideal for interconnect of assembled systems

Applications

- Replacement for custom bent 0.086" semi-rigid cables
- Communication receivers and transmitters
- · Military and aerospace system
- · Environmental and test chambers

086-6BM+



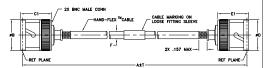
CASE STYLE: KP2467-6

Connectors	Model
BNC-Male	086-6BM+

+RoHS Compliant

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

Outline Drawing



Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		3	GHz
Length ²			6		inches
Insertion Loss	DC - 3	_	0.14	0.5	dB
Return Loss	DC - 3	19	36	_	dB

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

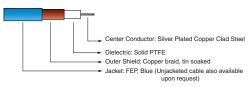
Outline Dimensions (inch)

D	C2	C1	В	Α
.57		.59	.57	6.0
14.5		14.99	14.5	152.40
wt	T	F	E2	E1
wt grams	T 0.05	F .108	E2 	E1 .59

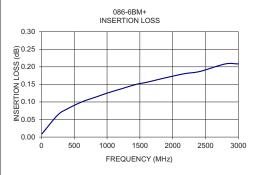
Typical Performance Data

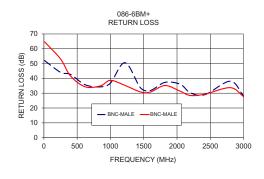
Frequency (MHz)	Insertion Loss (dB)	Returr (d		
		BNC-Male	BNC-Male	
10	0.01	52.0	64.7	
250	0.06	44.1	53.1	
400	0.08	42.7	41.6	
620	0.10	35.7	34.3	
850	0.12	34.3	34.9	
1000	0.13	36.8	38.7	
1220	0.14	50.6	35.2	
1450	0.15	33.7	30.9	
1600	0.16	31.8	30.8	
1820	0.17	37.3	35.2	
2050	0.18	36.0	31.3	
2200	0.18	30.3	28.4	
2420	0.19	29.0	29.4	
2800	0.21	38.1	33.7	
3000	0.21	28.1	27.8	

Cable Construction



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





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