

50Ω DC to 3 GHz

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.

Kev 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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24 inch DC to 3 GHz 50Ω

Maximum Ratings

| maximum matings | | | | | |
|-----------------|--|--|--|--|--|
| -55°C to 105°C | | | | | |
| -55°C to 105°C | | | | | |
| 211W at 0.5 GHz | | | | | |
| 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, 0.8 dB at 3 GHz
- Excellent Return Loss, 29 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

086-24BM+



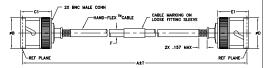
CASE STYLE: KP2467-24

| Connectors | Model |
|------------|-----------|
| BNC-Male | 086-24BM+ |

+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 | | | 24 | , | inches |
| Insertion Loss | DC - 3 | _ | 0.51 | 1.10 | dB |
| Return Loss | DC - 3 | 19 | 35 | _ | dB |

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

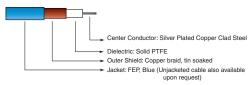
Outline Dimensions (inch)

| D | C2 | C1 | В | Α |
|-------------|------------------|------------------|--------|---------------|
| .57 | | .59 | .57 | 24.0 |
| 14.5 | | 14.99 | 14.5 | 609.60 |
| | | | | |
| | | | | |
| wt | Т | F | E2 | E1 |
| wt grams | T 0.15 | F .108 | E2 | E1 .59 |

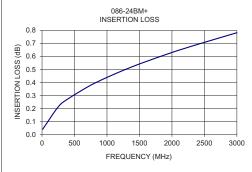
Typical Performance Data

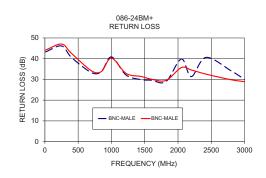
| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | |
|--------------------|------------------------|----------|---------------------|--|
| | | BNC-Male | BNC-Male | |
| 10 | 0.04 | 43.3 | 44.1 | |
| 250 | 0.21 | 46.1 | 47.1 | |
| 400 | 0.27 | 40.6 | 42.6 | |
| 700 | 0.37 | 33.3 | 34.1 | |
| 850 | 0.40 | 33.8 | 33.8 | |
| 1000 | 0.44 | 40.8 | 40.3 | |
| 1220 | 0.49 | 32.1 | 32.9 | |
| 1450 | 0.53 | 29.9 | 31.4 | |
| 1600 | 0.56 | 29.6 | 30.1 | |
| 1820 | 0.60 | 29.0 | 29.5 | |
| 2050 | 0.64 | 39.8 | 35.7 | |
| 2200 | 0.66 | 31.4 | 34.6 | |
| 2420 | 0.70 | 40.6 | 32.6 | |
| 2800 | 0.75 | 34.1 | 29.8 | |
| 3000 | 0.78 | 30.0 | 28.9 | |

Cable Construction



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





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