



Mini-Circuits

HAND
FLEX™

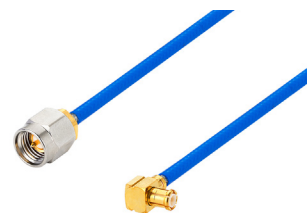
Coaxial Cable

086-12SMMCR+

50Ω DC to 6000 MHz 12 Inches SMA Male to Right-Angle MCX Male

KEY FEATURES

- Low loss, 0.60 dB typ. at 6000 MHz
- Excellent return loss, 24 dB typ. at 6000 MHz
- Hand formable to almost any custom shape without special bending tools
- 6 mm bend radius for tight installations
- Anti-torque nut prevents cable stress during installation
- Insulated outer jacket
- Connector interface, meets MIL-STD-348
- Ideal for interconnect of assembled systems

*Generic photo used for illustration purposes only*

APPLICATIONS

- Replacement for custom bent 0.086" semi-rigid cables
- Communication receivers and transmitters
- Radar, EW and ECM Defense Systems
- Environmental and test chambers

PRODUCT OVERVIEW

086-12SMMCR+ Hand-Flex™ coaxial cable is a semi-flexible cable 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 6 mm to accommodate tight layouts without the need for bending tools, adapters or brackets. SMA-Male and Right-Angle MCX-Male connectors makes this cable ideal for assemblies with SMA or MCX connector types.

ELECTRICAL SPECIFICATIONS AT +25°C

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Units |
|-----------------|-----------------|------|------|------|--------|
| Frequency Range | | DC | | 6000 | MHz |
| Length | | 12 | | | Inches |
| Insertion Loss | 10 – 2000 | - | 0.27 | 0.55 | dB |
| | 2001 - 4000 | - | 0.46 | 0.97 | |
| | 4001 - 6000 | - | 0.60 | 0.97 | |
| Return Loss | 10 – 2000 | 17.7 | 35.2 | - | dB |
| | 2001 - 4000 | 17.7 | 26.7 | - | |
| | 4001 - 6000 | 17.7 | 23.8 | - | |

ABSOLUTE MAXIMUM RATINGS¹

| | |
|------------------------------------|----------------|
| Operating Temperature | -45°C to +85°C |
| Storage Temperature | -45°C to +85°C |
| Power Handling at +40°C, Sea Level | 95 W at 1 GHz |

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

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 REV. A
 ECO-022273
 086-12SMMCR+
 MCL NY
 240702

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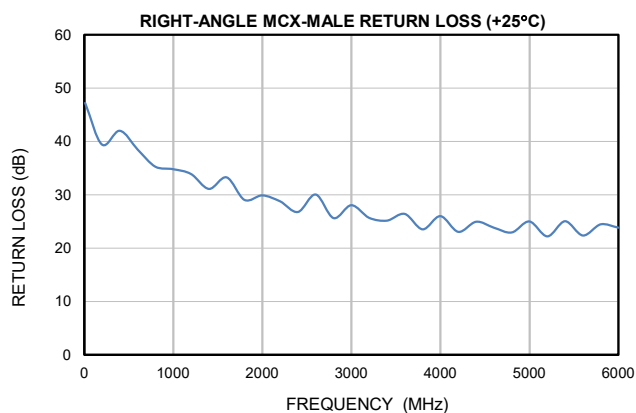
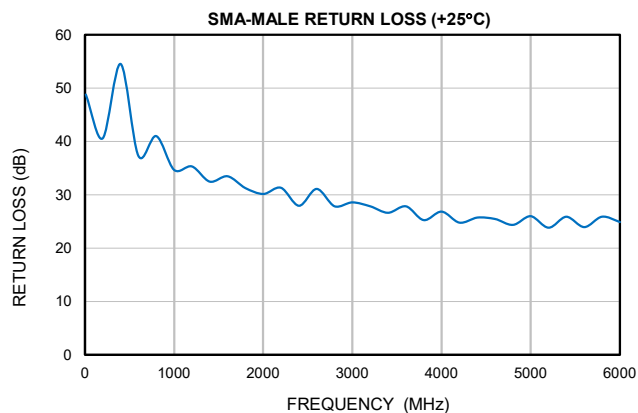
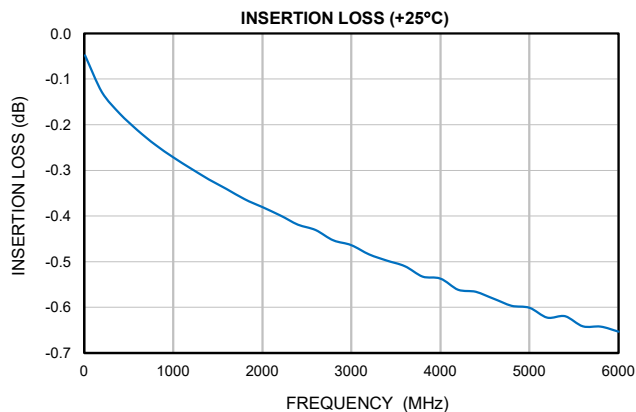
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TYPICAL PERFORMANCE GRAPHS





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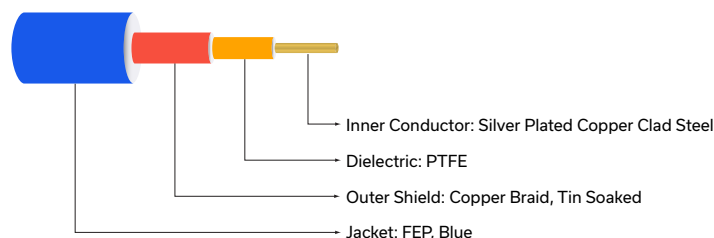
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50Ω DC to 6000 MHz 12 Inches SMA Male to Right-Angle MCX Male

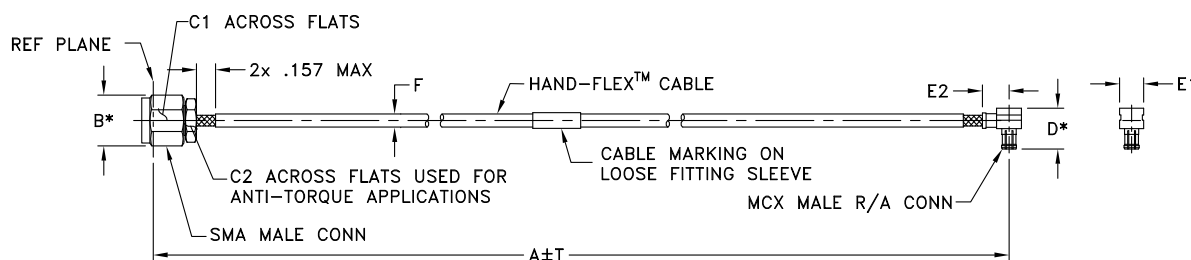
COAXIAL CONNECTIONS

| Description | Connector 1 | Connector 2 |
|----------------|-------------|-------------|
| Connector Type | SMA Male | MCX Male |
| Orientation | Straight | Right-Angle |

CABLE CONSTRUCTION



CASE STYLE DRAWING



* OVERALL CONNECTOR DIMENSION
 [CONNECTOR SHAPE MAY VARY]

OUTLINE DIMENSIONS (Inch/mm)

| A | B | C1 | C2 | D | E1 | E2 | T | wt grams |
|--------|------|------|------|------|------|-----|------|-------------|
| 12.0 | .36 | .315 | .250 | .338 | .197 | .22 | 0.10 | |
| 304.80 | 9.14 | 8.00 | 6.35 | 8.6 | 5.00 | 5.6 | 2.54 | 8.98 |

PRODUCT MARKING*: 086-12SMMCR+

*Marking may contain other features or characters for internal lot control.





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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

| | |
|---------------------------|-----------|
| Performance Data & Graphs | Data |
| | Graphs |
| Case Style | KP2341-12 |
| RoHS Status | Compliant |
| Environmental Ratings | ENV52T2 |

NOTES

- 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 criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html



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