



Mini-Circuits

**HAND**  
**FLEX™**

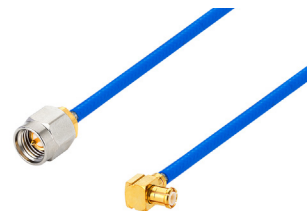
# Coaxial Cable

**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 RATINGS<sup>1</sup>

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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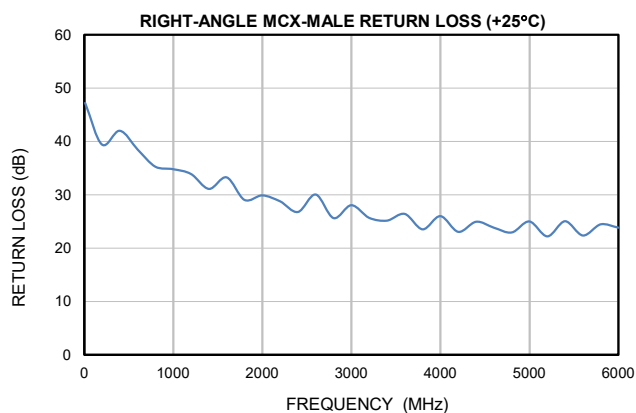
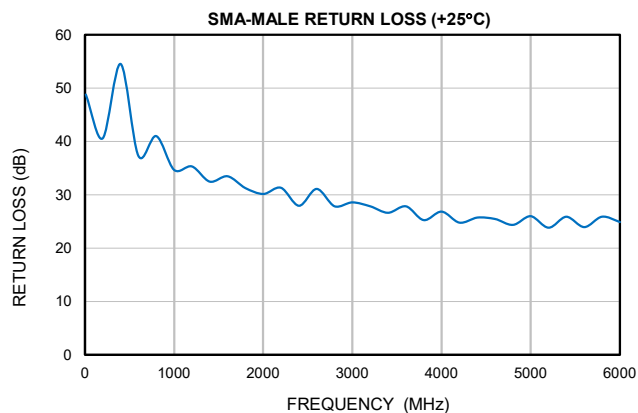
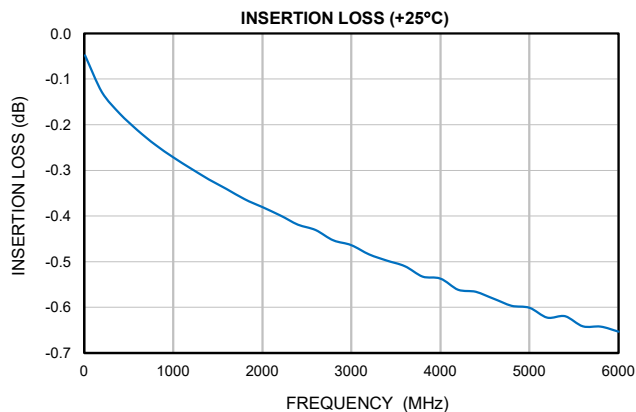
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## TYPICAL PERFORMANCE GRAPHS





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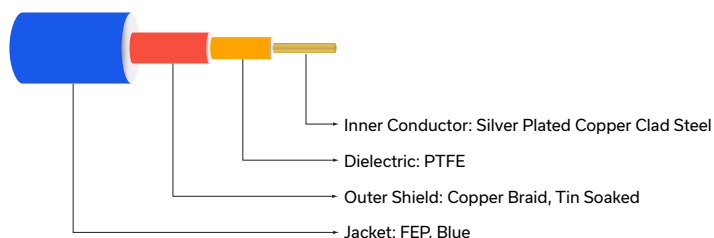
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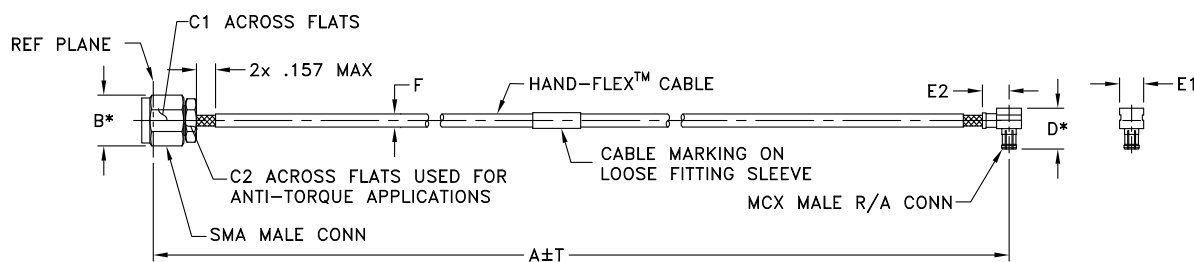
## COAXIAL CONNECTIONS

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](http://www.minicircuits.com/terms/viewterm.html)

