



Mini-Circuits

HAND
FLEX™

Coaxial Cable

FL086-12SMMCR+

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

KEY FEATURES

- Low loss, 0.7 dB typ. at 6000 MHz
- Excellent return loss, 27 dB typ. at 6000 MHz
- Hand formable to almost any custom shape without special bending tools
- 6 mm bend radius for tight installations
- Insulated outer jacket standard

*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

FL086-12SMMCR+ 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	-	0.30	0.60	dB
	2001 - 4000	-	0.53	0.97	
	4001 - 6000	-	0.66	0.97	
Return Loss	10 - 2000	17.7	36.1	-	dB
	2001 - 4000	17.7	25.6	-	
	4001 - 6000	17.7	27.4	-	

ABSOLUTE MAXIMUM RATINGS¹

Operating Temperature	-45°C to +85°C
Storage Temperature	-45°C to +85°C
Power Handling at +25°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
FL086-12SMMCR+
MCL NY
240702

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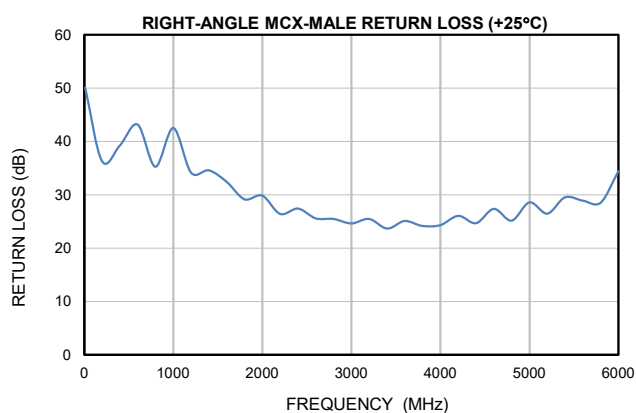
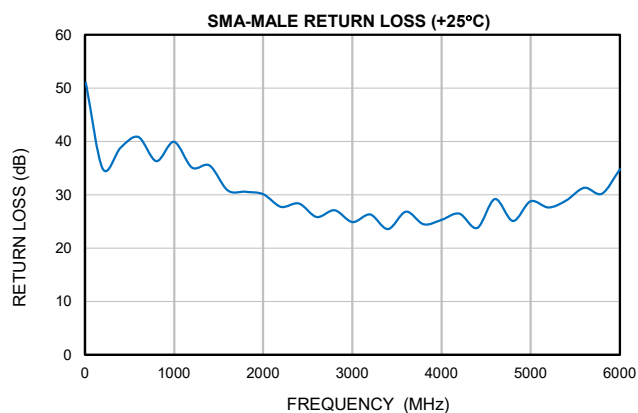
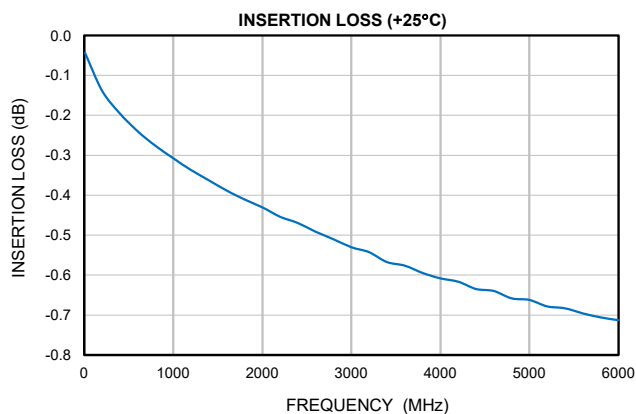
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TYPICAL PERFORMANCE GRAPHS



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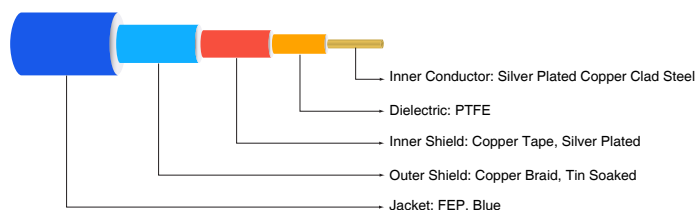
FL086-12SMMCR+

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

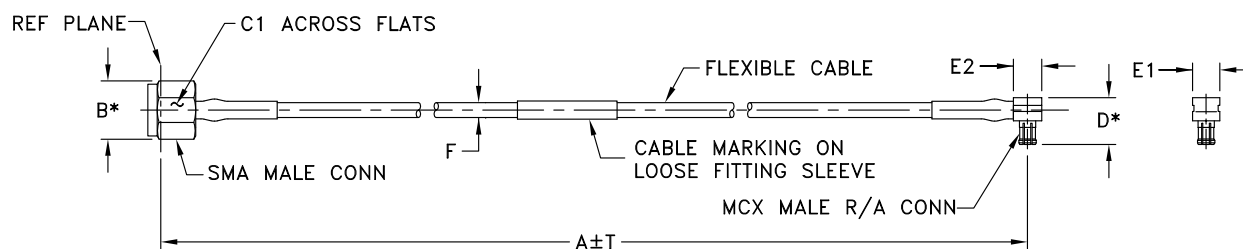
COAXIAL CONNECTIONS

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

CABLE CONSTRUCTION



CASE STYLE DRAWING



OUTLINE DIMENSIONS (Inch mm)

A	B	C1	C2	D	E1	E2	T	wt
12.0	.36	.315	--	.338	.197	.22	0.10	grams
304.80	9.14	8.00	--	8.6	5.00	5.6	2.54	10.2

PRODUCT MARKING*: FL086-12SMMCR+

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



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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

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Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	SE3526-12
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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