FL086-XXKM+ Model Series

DC to 40 GHz 50Ω

The Big Deal

- Flexible
- Tight Bend Radius, 6mm
- Excellent Return Loss and Insertion Loss
- Ideal for interconnect of assembled systems



CASE STYLE: SE2929-XX

XX= cable length in inches

Product Overview

The FL086 Series Flexible Coaxial Cables are ideal for interconnection of coaxial components or sub-systems. The construction includes a silver-plated copper-clad steel center conductor. The outer shield is copper braid, tin soaked, which minimizes signal leakage and at the same time flexible for easy bend. Dielectric is low loss PTFE. Connectors have passivated stainless-steel coupling nut over a gold plated connector body with gold plated brass center conductor. The FL086 Series Flexible cables are available in variety of length to meet your requirements.

Key Features

Feature	Advantages
Flexible RF Cables	The FL086 Series Flexible cables are ideal for use integrating coaxial components and sub-assemblies without the need for special cable-bending tools and alleviating the risk of damage during the bending process typical of semi-rigid coaxial cable assemblies.
Tight Bend Radius: 6mm	Capable of only 6mm bend radius, the FL086 Flexible series is able to make connections in tight spaces making these cables ideal for dense system integration
Excellent Return loss • 31 dB typ. up to 18 GHz • 28 dB typ. up to 40 GHz	The FL086 Series Flexible Cables are ideally suited for interconnecting a wide variety of RF components while minimizing VSWR ripple contribution due to mating cables & connectors.
Good Power Handling Capability: • 198W at 0.5 GHz • 13W at 40 GHz	Mini-Circuits FL086 Cable series can support medium to high RF power levels enabling these cables to be used in the transmit path. NOTE: power rating is at sea-level altitudes.

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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.ninicircuits.com/MCLStore/terms.jsp

Coaxial Cable

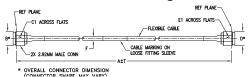
4 inch DC to 40 GHz 50Ω

Maximum Ratings

Operating Temperature	-55°C to 105°C	°C t	
Storage Temperature	-55°C to 105°C	°C t	
Power Handling at 25°C,	198W at 0.5 GHz	at	
Sea Level	140W at 1 GHz	at	
	99W at 2 GHz	at	
	57W at 6 GHz	at	
	45W at 10 GHz	at	
	33W at 18 GHz	at	
	16W at 26.5 GHz	at	
	13W at 40 GHz	at	

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

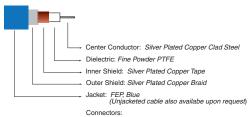
Outline Drawing



Outline Dimensions (inch)

E1	D	C2	C1	В	Α
.315	.36		.315	.36	4.0
8.00	9.14		8.00	9.14	101.60
wt		T		F	E2
grams		0.05	.004	0.106±.	
8.40		1 27	1	2 64+0	

Cable Construction



- Coupling Nut: Stainless Steel Passivated
- Body: Stainless Steel Gold Plated Center Pin: Brass, Gold Plated

- Wideband frequency coverage, DC to 40 GHz
- Low Loss, 0.6 dB typ. up to 40 GHz
- Excellent Return Loss, 28 dB typ. up to 40 GHz
- Flexible
- 6mm bend radius for tight installations
- · Insulated outer jacket standard
- 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 systems
- · Environmental and test chambers
- · Test accessory

FL086-4KM+



CASE STYLE: SE2929-4

Con	nectors	Model	
2.92r	nm-Male	FL086-4KM+	

+RoHS Compliant

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

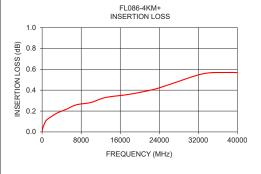
Electrical Specifications at 25°C

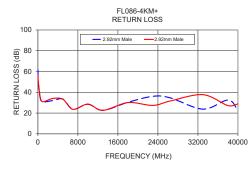
	_			1	
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		40	GHz
Length ¹			4		inches
	DC - 6	_	0.2	0.5	
La contra de la contra dela contra de la contra dela contra de la contra del la contra	6 - 18	_	0.3	0.9	-ID
Insertion Loss	18 - 26.5	_	0.4	1.1	dB
	26.5 - 40	_	0.6	1.3	
Detum I are	DC - 18	19	31	_	dB
Return Loss	18 - 40	17	28	_	иь

1. Custom sizes available, consult factory.

Typical Performance Data

Typical Feriorinance Data						
Frequency (MHz)	Insertion Loss (dB)		n Loss IB)			
		2.92mm-Male	2.92mm-Male			
10	0.00	61.35	56.94			
100	0.03	48.26	49.26			
500	0.08	33.63	34.41			
1000	0.12	30.72	30.83			
3000	0.18	32.03	34.09			
5000	0.22	33.45	33.27			
7000	0.26	23.68	23.61			
10000	0.28	28.50	28.62			
13000	0.33	22.65	22.65			
18000	0.36	30.37	30.10			
23000	0.41	36.15	27.39			
26500	0.46	34.60	31.68			
33000	0.56	23.79	37.72			
38000	0.57	32.50	27.21			
40000	0.57	22.91	28.79			





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