

FLC-4FT-SMSM+

SMA-Male 4FT DC to 26 GHz

THE BIG DEAL

- Low insertion loss, 3.3 dB at 26 GHz
- Rugged construction includes protective shield and strain relief for longer life
- Stainless steel connectors for long
- Extra flexible



- Military and Defense Systems
- Research & Development labs



Generic photo used for illustration purposes only

Model No.	FLC-4FT-SMSM+			
Case Style	MU1838-4			
Connectors	SMA-Male			

+RoHS Compliant

The +Suffix identifies RoHS Compliance. ebsite for methodologies and qualification

Product Guarantee

Mini-Circuits* will repair or replace your test cable at its option if the connector attachment fails within <u>six</u> months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.

PRODUCT OVERVIEW

Mini-Circuits FLC-SMSM+ series flexible test cables provide ultra-wideband performance from DC to 26 GHz with low insertion loss and excellent VSWR. Specially designed for outstanding stability of phase and insertion loss versus flexure, these cables are ideal for demanding lab environments where crowded layouts and frequent bending are common. They feature SMA-M to SMA-M stainless steel connectors and rugged cable construction with protective shield and strain relief for excellent durability. Available from stock in a variety of lengths to support a range of requirements.

KEY FEATURES

Feature	Advantages
Ultra-wideband, DC to 26 GHz	Supports a wide range of test applications including R&D, military and defense, production test and more.
Excellent stability of phase and insertion loss versus flexure	FLC-series test cables have been tested in bend radii as tight as 2.4 inches to qualify minimal change in insertion loss, insertion phase, and VSWR, providing reliable performance in a wide range of configurations.
Low insertion loss	Allows accurate measurement with minimal compensation for the effects of the cable connection.
Performance qualified to 20,000 flexures	Like all Mini-Circuits test cables, FLC-series models have been performance qualified up to 20,000 bend cycles, ensuring outstanding durability and extra long life.

FLC-4FT-SMSM+

4FT DC to 26 GHz SMA-Male 50Ω

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		26	GHz
Length ¹			4		ft
	DC - 6	_	1.40	3.9	
Insertion Loss	6 - 18	_	2.85	3.9	dB
	18 - 26	_	3.55	3.9	
	DC - 6	_	1.08	1.35	
VSWR	6 - 18	_	1.25	1.35	:1
	18 - 26	_	1.33	1.38	

^{1.} Custom sizes available, consult factory.

PERFORMANCE CHANGE VS. FLEXURE (TYPICAL)²

Parameter	Fragueray (CU=)	Bend Radius (inches)			Units
Parameter	Frequency (GHz)	10.0	3.25	2.40	Units
	DC - 6	0.00	0.01	0.01	
Insertion Loss ³	6 - 18	0.01	0.02	0.03	dB
	18 - 26	0.01	0.04	0.05	
	DC-6	0.03	0.09	0.49	Deg
Insertion Phase ³	6 - 18	0.03	0.31	1.7	
	18 - 26	0.07	1.6	2.9	
	DC - 6	0.00	0.01	0.01	
VSWR ³	6 - 18	0.01	0.02	0.02	:1
	18 - 26	0.01	0.08	0.11	

^{2.} Performance change versus flexure with a 3 ft cable 360° around a 4" diameter mandrel.

ABSOLUTE MAXIMUM RATINGS

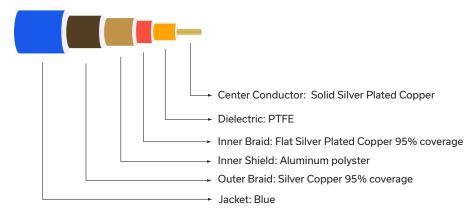
Parameter	Ratings
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
	315 W at 2 GHz
Power Handling at 25°C, Sea Level	94 W at 18 GHz
	56 W at 26 GHz

^{3.} Absolute values normalized to the reference position 0. See AN-46-003 under Associated Application Notes

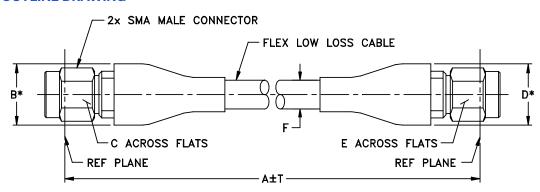


500 4FT DC to 26 GHz SMA-Male

CABLE CONSTRUCTION



OUTLINE DRAWING



* OVERALL CONNECTOR DIMENSION

OUTLINE DIMENSIONS (Inch)

wt	T		F	Е	D	С	В	Α	
grams	mm	Inch	.194	.312	.42	.312	.42	Meters	Feet
89	+24 4/-0	+ 96/-0	4 95	7 93	10.70	7 93	10.70	1 22	4 00