



Test Cable

CBL-1MFM-75+

Mini-Circuits

75Ω 1M DC to 3000 MHz F-Type Male

THE BIG DEAL

- RoHS compliant
- Wideband coverage, DC to 3000 MHz
- Extra rugged construction with strain relief for longer life
- Stainless steel F-Male connectors for long mating-cycle life
- Useful over temperature range, -55°C to 105°C
- Triple shield cable for excellent shielding effectiveness
- Flexible for easy connection & bend radius
- 6 month guarantee*



Generic photo used for illustration purposes only

Model No.	CBL-1MFM-75+
Case Style	ND1919-3.28
Connectors	F-Type Male

+RoHS Compliant

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

Product Guarantee*

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

APPLICATIONS

- High volume production test stations
- Research & development labs
- Environmental & temperature test chambers
- Replacement for OEM test port cables
- Field RF testing

PRODUCT OVERVIEW

Mini-Circuits CBL-FM-75+ series 75Ω test cables provide extra rugged durability and flexibility for easy connections and long life in test environments. These cables support 75Ω test applications from DC to 3000 MHz and provide outstanding return loss and low insertion loss across their full frequency range with power handling up to 338W. They're performance qualified up to 20,000 flex cycles and feature triple-shielded cable construction with F-type (M) to F-type (M) connectors. Available in a variety of lengths.

KEY FEATURES

Feature	Advantages
Wideband, DC to 3000 MHz	Wide frequency range covers many applications.
High Power Handling: <ul style="list-style-type: none"> • 338W @ 0.5 GHz • 98W @ 3 GHz 	High power handling makes CBL test cables suitable for applications with a wide range of requirements.
Excellent Return Loss and Low Insertion Loss	Well matched for 75Ω systems across the entire frequency band.
Extra rugged, triple shield cable construction	CBL-FM-75+ test cables provide outstanding durability, flexibility, and shielding effectiveness.
Passivated stainless steel F-Male connectors	Long connector mating cycle life.
Superior stability of Insertion Loss and Return Loss	Reliable performance in almost any test layout configuration.

REV. B
ECO-022579
CBL-1MFM-75+
MCL NY
240730





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ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency range		DC		3000	MHz
Length ¹			1		M
Insertion Loss	DC - 500	—	0.32	0.53	dB
	500 - 1000	—	0.49	0.69	
	1000 - 2000	—	0.78	0.92	
	2000 - 3000	—	0.89	1.11	
Return Loss	DC - 500	26	37	—	dB
	500 - 1000	26	32	—	
	1000 - 2000	24	32	—	
	2000 - 3000	22	24.3	—	

1. Custom sizes available, consult factory.

ABSOLUTE MAXIMUM RATINGS

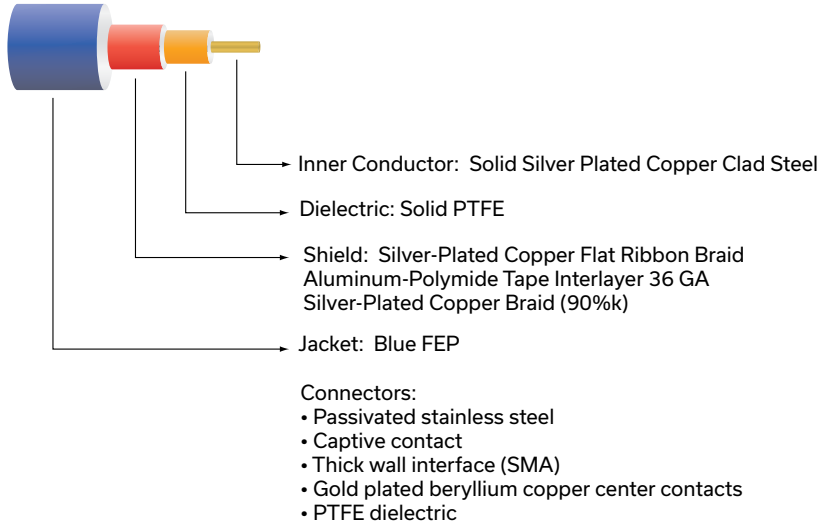
Parameter	Ratings
Operating Temperature	-55°C to +105°C
Storage Temperature	-55°C to +105°C
Power Handling at +25°C, Sea Level	338 W Max. at 0.5 GHz 210 W Max. at 1 GHz 143 W Max. at 2 GHz 98 W Max. at 3 GHz

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

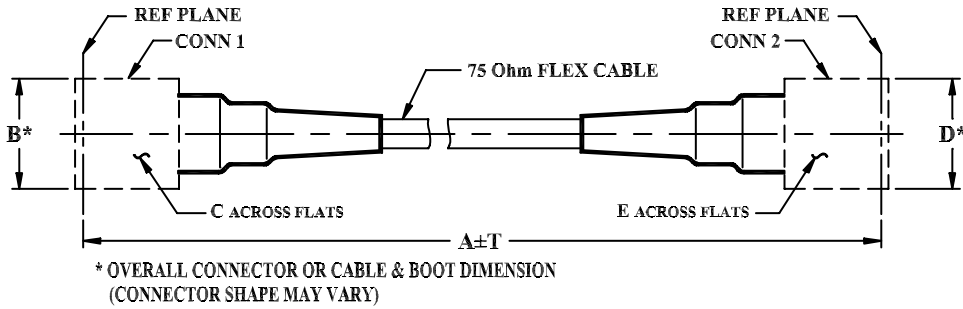




CABLE CONSTRUCTION



OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	T	wt
3.28	.54	.500	.54	.500	.10	grams
1.00	13.72	12.70	13.72	12.70	0.03	125.0



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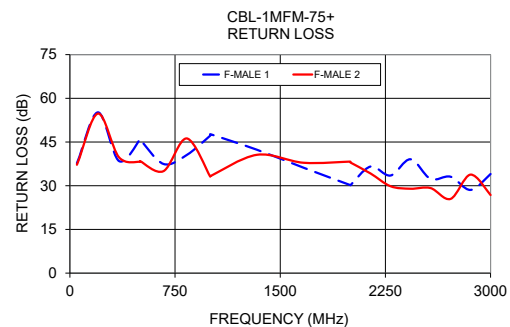
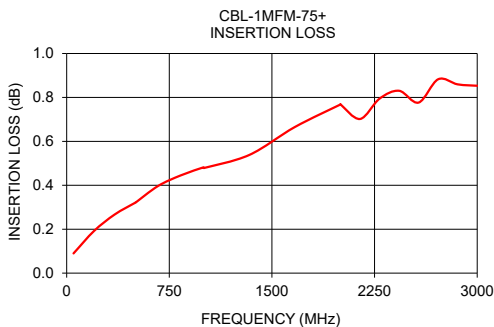
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TYPICAL PERFORMANCE DATA

Frequenc (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		F-Male	F-Male
50	0.09	37.70	37.20
200	0.19	55.18	54.77
500	0.32	45.86	38.18
667	0.40	37.47	35.00
834	0.45	40.56	46.23
1000	0.48	47.16	33.18
1334	0.54	42.35	40.62
1667	0.67	36.17	37.88
2000	0.77	30.21	38.28
2286	0.79	33.50	29.83
2429	0.83	39.08	28.97
2572	0.78	32.33	29.20
2715	0.88	33.09	25.47
2857	0.86	28.56	33.82
3000	0.85	34.02	26.79



- 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

