COAXIAL

Armored Flexible Cable **WBL-0.5FTW1F1M+**

Mini-Circuits

50Ω DC to 110 GHz 6 Inches

1.0 mm-Female to 1.0 mm-Male

KEY FEATURES

- Ultra-wideband DC to 110 GHz
- Low insertion loss, 2.5 dB, typ.
- Excellent return loss, 24.2 dB, typ.
- Strong protective jacket



Generic photo used for illustration purposes only

APPLICATIONS

- Optical communications
- Test & Measurement
- High-speed data systems
- Instrumentation
- Precision Measurement

HANDLING INSTRUCTIONS 1.0 mm connectors require specific handling and torque values. See Mini-Circuits Application Note AN-71-001 for detail.

PRODUCT OVERVIEW

WBL-0.5FTW1F1M+ cable is ideal for interconnecting coaxial components and subassemblies in a wide range of systems, including test and measurement, instrumentation, and more. This braided flexible cable provides a minimum bend radius of 26 mm to accommodate tight layouts without the need for bending tools, adapters or brackets.

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units	
Frequency Range		DC	-	110	GHz	
Length		6			inches	
	DC - 35	-	0.9	3.7		
Insertion Loss	35 - 75	-	1.8	3.7	dB	
	75 – 110	-	2.5	3.7		
	DC - 35	14.0	31.6	-		
Return Loss	35 - 75	14.0	24.1	-	dB	
	75 - 110	14.0	24.2	-		

ABSOLUTE MAXIMUM RATINGS¹

Operating Case Temperature	-45°C to +80°C		
Storage Temperature	-45°C to +80°C		
	14.4 W at 6 GHz		
	7.9 W at 18 GHz		
Average Power Handling at Sea Level	5.0 W at 40 GHz		
	3.6 W at 67 GHz		
	2.7 W at 110 GHz		

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



REV. OR ECO-023939 WBL-0.5FTW1F1M+ MCL NY

241212



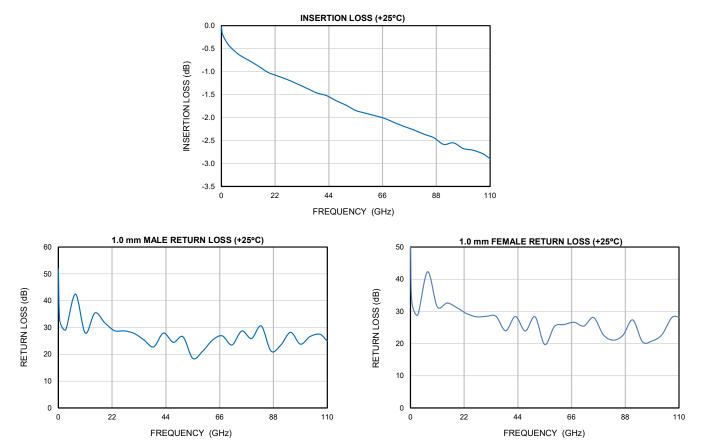
50Ω

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TYPICAL PERFORMANCE GRAPHS





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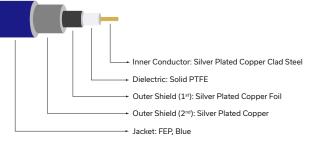
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COAXIAL CONNECTIONS

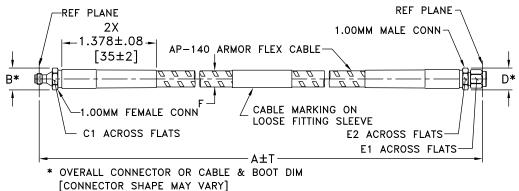
Description	Connector 1	Connector 2		
Connector Type	1.0 mm Female 1.0 mm Male			
Orientation	Straight	Straight		

CABLE CONSTRUCTION²



2. Cable construction drawing does not include the armored braiding

CASE STYLE DRAWING



Unless Otherwise Specified dimensions are in inches [mm] Tolerances: 2 Pl.±0.03 [0.76]; 3 Pl. ±0.015[0.38] inches [mm]

OUTLINE DIMENSIONS (Inch)

А	В	C1	C2	D	E1	E2	F	т	wt
6.00	.32	.276	-	0.32	0.236	0.276	.221±.008	.10	grams
152.40	8.1	7.00	-	8.1	6.00	7.00	5.6 ± 0.2	2.54	20.6

PRODUCT MARKING*: WBL-0.5FTW1F1M+

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



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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

	Data			
Performance Data & Graphs	Graphs			
	S-Parameter (S2P Files) Data Set (.zip file)			
Case Style	AAG3496-6			
RoHS Status	Compliant			
Environmental Ratings	ENV143			

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-Circuits' 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 https://www.minicircuits.com/terms/viewterm.html

