Armored Flexible Cable wbl-0.5FT-w1F+

500 DC to 110 GHz 6 Inches 1.0 mm-Female to 1.0 mm-Female

KEY FEATURES

- Ultra-wideband DC to 110 GHz
- Low insertion loss, 2.5 dB, typ.
- · Excellent return loss, 26.4 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-0.5FT-W1F+ 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	-	0.8	3.7	
Insertion Loss	35 - 75	-	1.8	3.7	dB
	75 – 110	-	2.5	3.7	
	DC - 35	14.0	31.3	-	
Return Loss	35 - 75	14.0	24.9	-	dB
	75 – 110	14.0	26.4	-	

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 FCO-023939 WBL-0.5FT-W1F+ MCL NY 241212

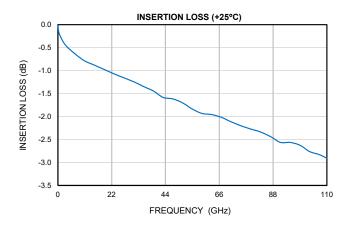
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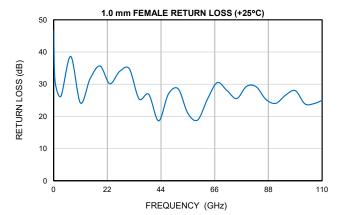


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DC to 110 GHz 6 Inches 1.0 mm-Female to 1.0 mm-Female 50Ω

TYPICAL PERFORMANCE GRAPHS







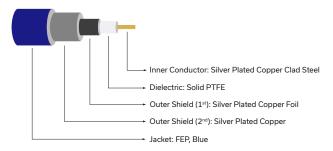
Armored Flexible Cable wbl-0.5FT-w1F+

1.0 mm-Female to 1.0 mm-Female 500 DC to 110 GHz 6 Inches

COAXIAL CONNECTIONS

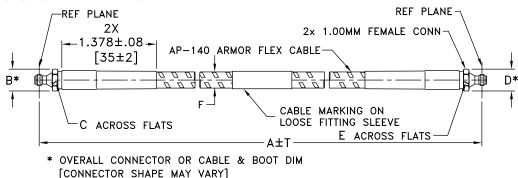
Description	Connector 1	Connector 2	
Connector Type	1.0 mm Female	1.0 mm Female	
Orientation	Straight	Straight	

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)

wt	Т	F	Е	D	С	В	Α
grams	.10	.221 ± .008	.276	.32	.276	.32	6.00
20.0	2.54	5.6 ± 0.2	7.00	8.1	7.00	8.1	152.40

PRODUCT MARKING*: WBL-0.5FT-W1F+

*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	AAG3494-6
RoHS Status	Compliant
Environmental Ratings	ENV143

Notes

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



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.