

Phaseline Series High Performance Phase Stable Test Cable

PL110/1.0mm Male /1.0mm Female/DC-110 GHz **Model: PL110-1.0M1.0F-L**



ARMOR DIAMETER: 4.8MM

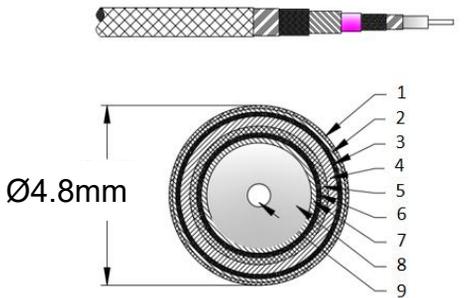
Features:

- Max Frequency 110 GHz
- VSWR : 1.25 Typ
- Velocity : 80%

Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

Cable Cross Section:



- 1—编织护套 PTFE Braiding Jacket
- 2—外扎带 Outer tie
- 3—耐扭转编织层 Torsion-resistant braid
- 4—抗压保护层 Compression protective layer
- 5—电缆护套 Cable Jacket
- 6—外屏蔽层 Outer Shield
- 7—内屏蔽层 Inner Shield
- 8—绝缘介质 Insulator PTFE
- 9—芯线 Inner conductor

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
VSWR		1.25	1.40	:1
Velocity		80%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Flexure		±8		°
Amplitude Stability Vs. Flexure		±0.08		dB

Environmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	4.8	mm
Cable Jacket	PTFE	
Min. Bending Radius	25	mm
Typical Flex life	50000	
Operating Temperature	-55 to +125	°C
Storage Temperature	-55 to +165	°C

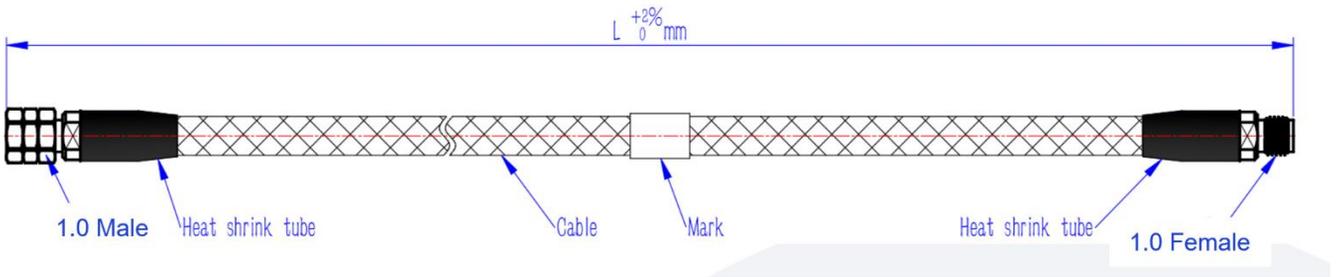
Cable Performance By Frequency

Frequency 1GHz 3 GHz 6 GHz 10GHz 12 GHz 18 GHz 26.5 GHz 40GHz 50 GHz 67GHz 110GHz

Connectors:

Description	Connector 1	Connector 2
Type	1.0mm Straight Male	1.0mm Straight Female
Contact Material And Plating	Beryllium Copper,Gold	Beryllium Copper,Gold
Dielectric Type	PTFE	PTFE
Body Material And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	$0.05 * \sqrt{f_GHz}$	$0.05 * \sqrt{f_GHz}$

Outline Drawing:



Ordering Information:

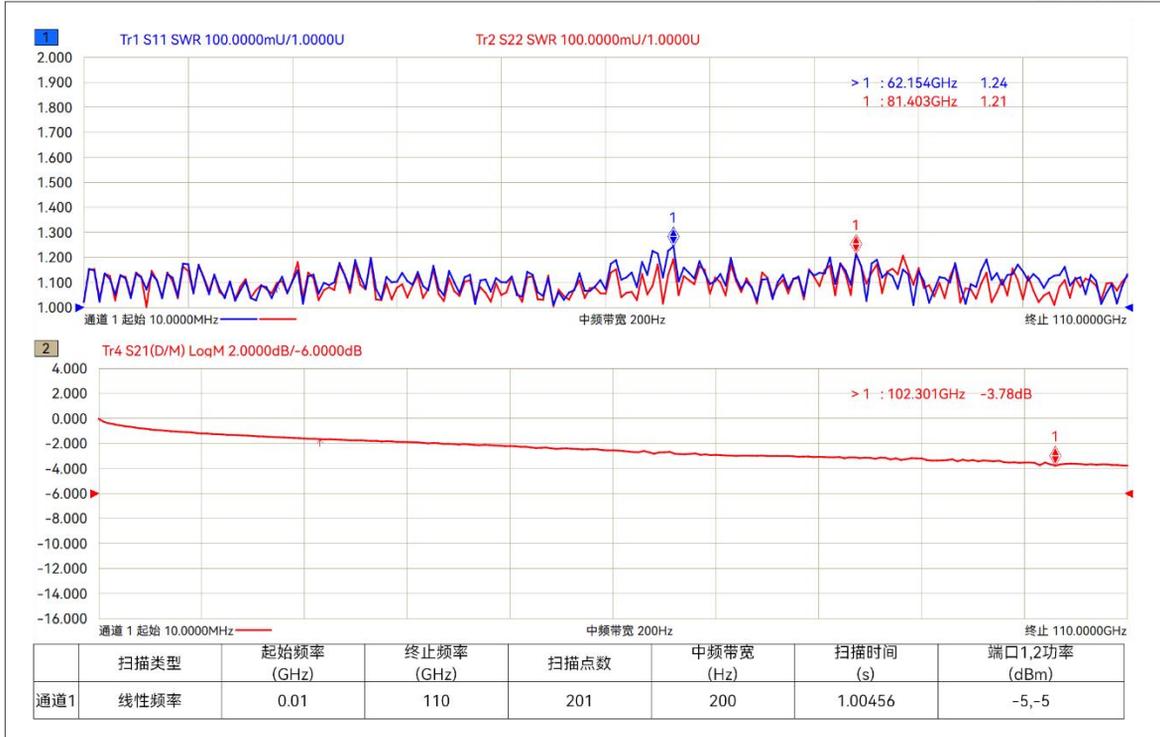
Base Number	Lenth (Unit meters)	Phase/delay Matched (optional)
PL110-1.0M1.0F	-L	LEAVE BLANK(NOT REQUIRED) -XXPS($\leq \pm XX$ PS) -XX°($\pm XX^\circ$)

Typical Performance Data:

Model:PL110-1.0M1.0M-0.2m

Model:PL110-1.0M1.0M-0.3m

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Model:PL110-1.0M1.0M-0.4m

Model:PL110-1.0M1.0M-1m

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