

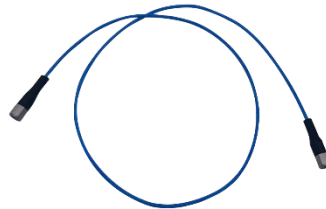
## Flexible Ultra Low Loss Coax Cable Assembly

M17/1.0mm Male /1.0mm Male/DC-110 GHz

Model: M17-1.0M1.0M-L

### Features:

- Max Frequency 110 GHz
- VSWR : 1.25 Typ



M17-1.0M1.0M-L  
(WITHOUT ARMOR)



M17-1.0M1.0M-L-A  
(WITH 4.8MM  
DIAMETER ARMOR)

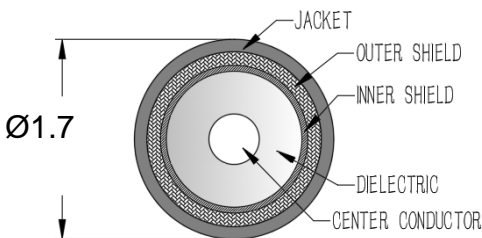
### Applications:

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

### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
VSWR		1.25	1.50	:1
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Flexure		±8		°
Amplitude Stability Vs. Flexure		±0.08		dB

### Cable Cross Section:



### Environmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	1.7	mm
Cable Jacket	FEP	
Min. Bending Radius	6	mm
Typical Flex life	50000	
Operating Temperature	-55 to +125	°C
Storage Temperature	-55 to +165	°C

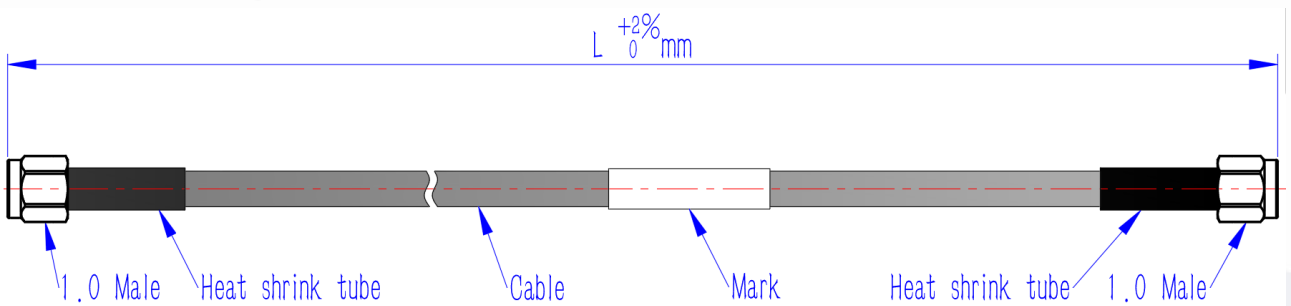
### Cable Performance By Frequency

Frequency	1GHz	3 GHz	6 GHz	10GHz	12 GHz	18 GHz	26.5 GHz	40GHz	50 GHz	67GHz	110GHz
Insertion Loss (dB/m Max.)	1.17	2.07	2.99	3.94	4.34	5.39	6.5	8.3	9.2	11.0	14.9
RF Power CW (W Max.)	27	16	13	12	11	7	6	5	4.5	4	3

### Connectors:

Description	Connector 1	Connector 2
Type	1.0mm Straight Male	1.0mm Straight Male
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:

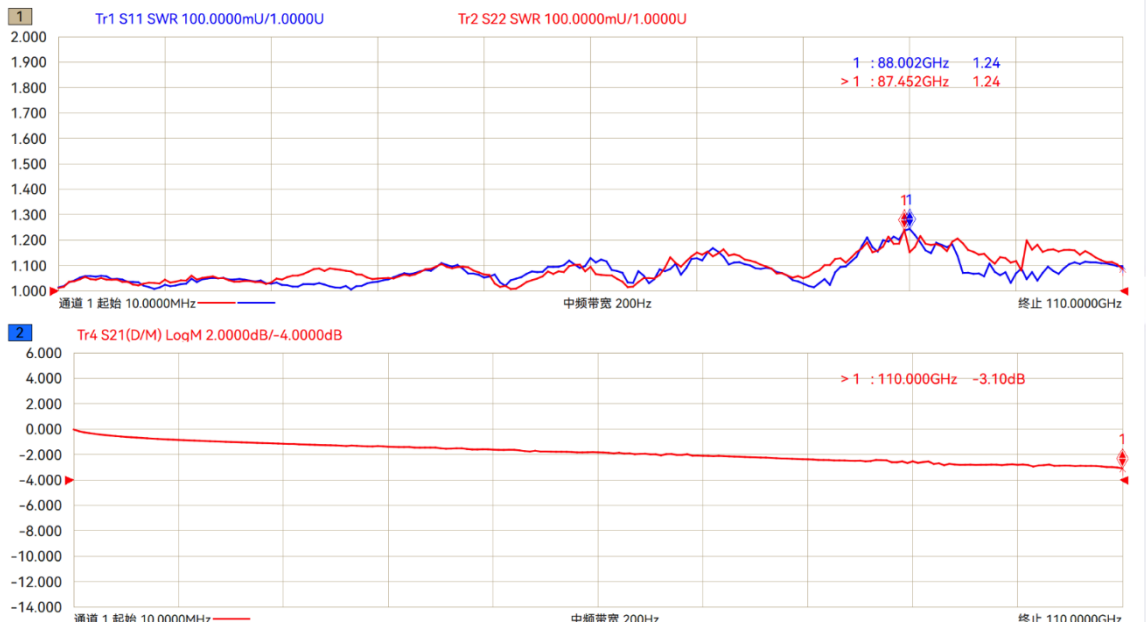


### Ordering Information:

Base Number	Lenth (Unit meters)	Armour	Phase/delay Matched
M17-1.0M1.0M	-L	LEAVE BLANK (NOT REQUIRED) -A (with Armor)	LEAVE BLANK (NOT REQUIRED) -XXPS ( $\pm XX$ PS) -XX° ( $\pm XX^\circ$ )

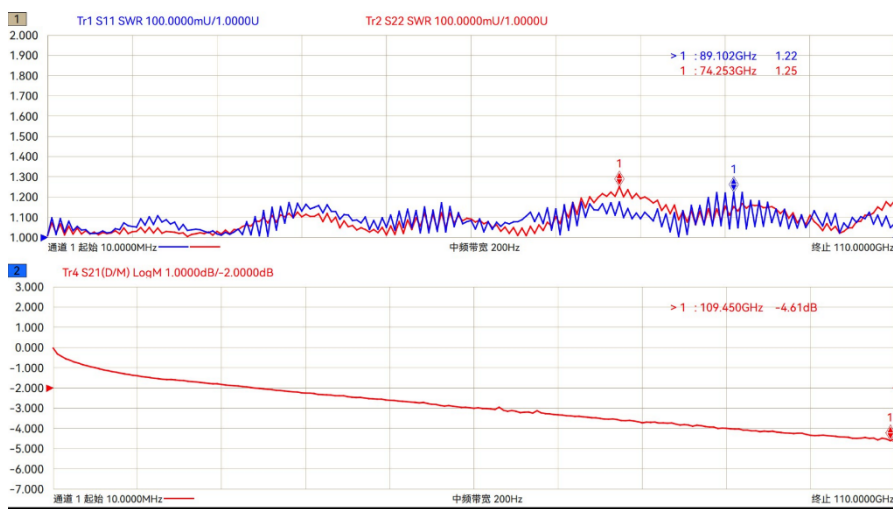
### Typical Performance Data:

Model: M17-1.0M1.0M-0.2m

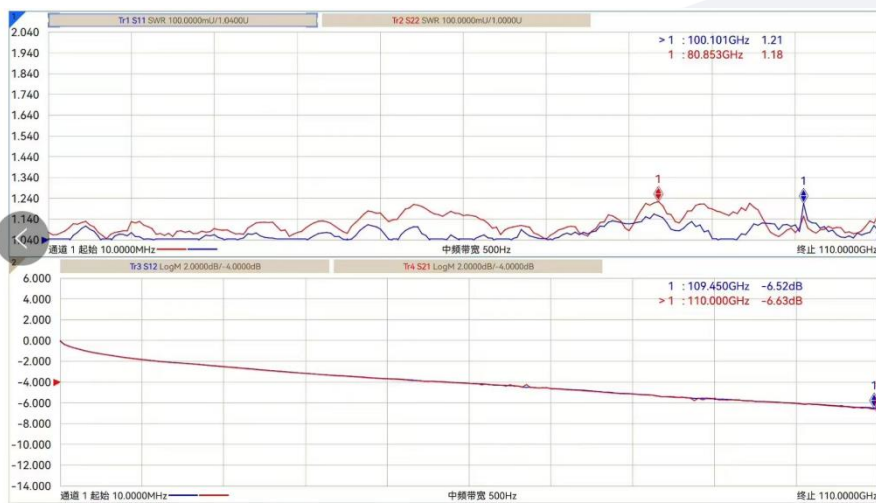


**Typical Performance Data:**

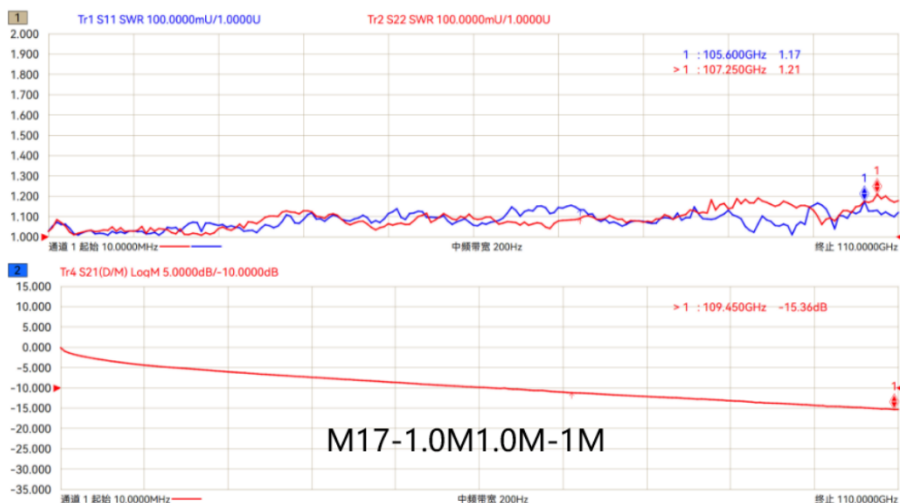
**Model:M17-1.0M1.0M-0.3m**



**Model:M17-1.0M1.0M-0.4m**



**Model:M17-1.0M1.0M-1m**



**M17-1.0M1.0M-1M**