

Flexible Ultra Low Loss Coax Cable Assembly

A22/SMA Male /SMA Angle Male/DC-18 GHz **Model: A22-SMAMSMAWM-L**



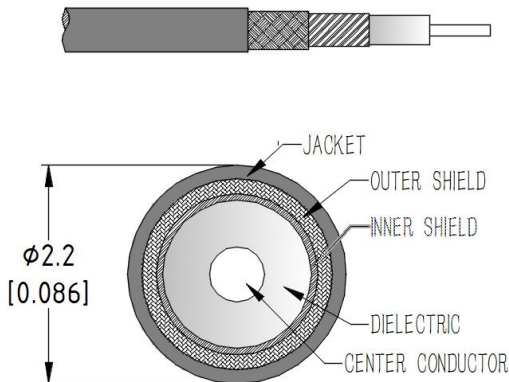
Features:

- Max Frequency 18 GHz
- VSWR max of 1.30
- Velocity of Propagation of 82%

Applications:

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

Cable Cross Section:



Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR		1.25	1.3	:1
Velocity of propagation		82%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Flexure@18GHz		±2		°
Amplitude Stability Vs. Flexure@18GHz		±0.02		dB
Phase Stability Vs. Temperature			550	PPM

Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	2.2	mm
Cable Jacket	FEP	
Min. Bending Radius	11	mm
Typical Flex life	50000	
Operating Temperature	-55 to +125	°C
Storage Temperature	-55 to +165	°C

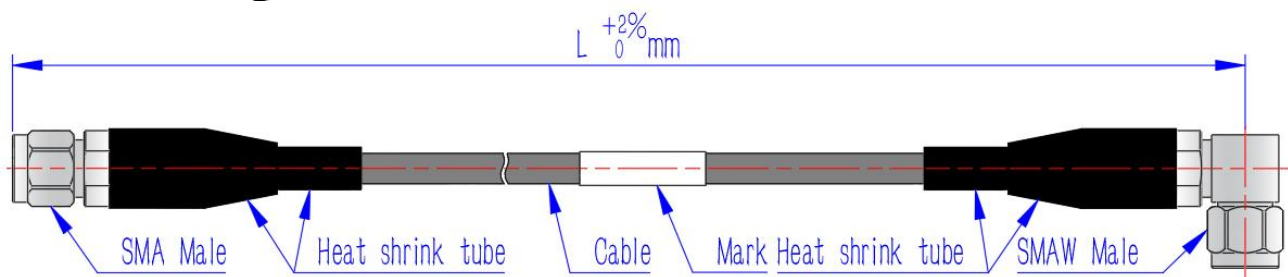
Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	18 GHz
Insertion Loss (dB/m Max)	0.91	1.30	1.60	1.86	2.31	2.87
RF Power CW (W Max.)	190	133	108	82	75	60

Connectors:

Description	Connector 1	Connector 2
Type	SMA Straight Male	SMA Angle Male
Contact Material And Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PEI	PEI
Body Material And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	$0.05 * \sqrt{f_{\text{GHz}}}$	$0.07 * \sqrt{f_{\text{GHz}}}$

Outline Drawing:



Ordering Information:

Base Number	Lenth	Armour (optional)		Phase/delay Matched (optional)
A22-SMAMSAWM	-L	-A (Black nylon woven armor)		
		-AP (PUR water proof armor)		-XXPS ($\leq \pm XX$ PS)
		-AS (Stainless steel armor)		-XX° ($\pm XX^\circ$)
		-AT (Transparent armor)		

Typical Performance Data:

Model:A22-SMAMSMAWM-1m

Frequency	2 GHz		6 GHz		12 GHz		18 GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss (dB)	0.98	1.05	1.73	1.85	2.48	2.66	3.08	3.29
VSWR	1.03	1.05	1.05	1.08	1.08	1.10	1.10	1.13