Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

Flexible Ultra Low Loss Coax Cable Assembly

A81/SMA Female/SMA Female/DC-18 GHz

Model: A81-SMAFSMAF-L

Features:

- Max Frequency 18 GHz
- VSWR max of 1.30
- Velocity of Propagation of 83%

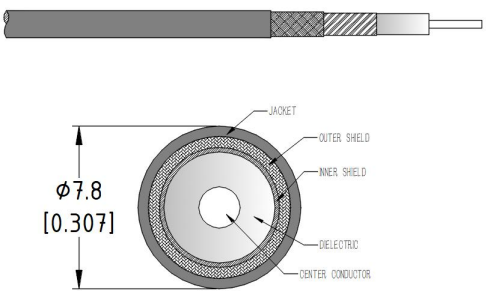
Applications:

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR		1.25	1.3	:1
Velocity of propagation		83%		
Shielding Effectiveness	90			dB
Capacitance			80	pF/m
Phase Stability Vs. Flexure@18GHz		±2		°
Amplitude Stability Vs. Flexure@18GHz		±0.03		dB
Phase Stability Vs. Temerature			550	PPM

Cable Cross Section:



Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	7.8	mm
Cable Jacket	FEP	
Min. Bending Radius	26	mm
Typical Flex life	50000	
Operating Temerature	-55 to +125	℃
Storage Temerature	-55 to +165	℃

Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	16 GHz	18 GHz

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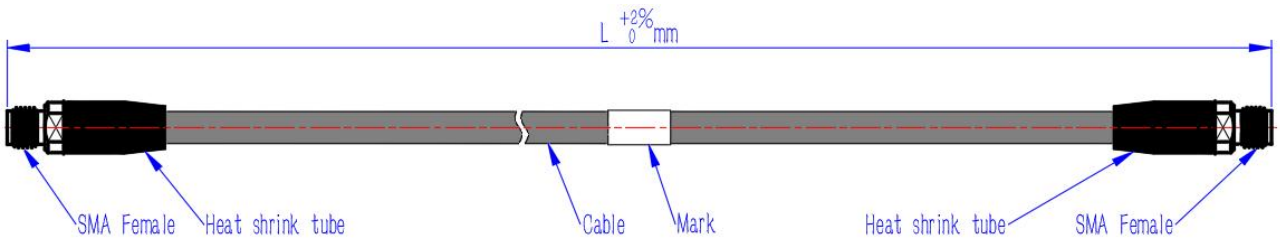
Connectors:

Description	Connector 1	Connector 2
Type	SMA Straight Female	SMA Straight Female
Contact Matericl And Plating	Brass,Gold	Brass,Gold
Dielectric Type	PTFE	PTFE
Body Matericl 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	Armour （optional）		Phase/delay Matched （optional）
A81-SMAFSMAF	-L	**-A**(Black nylon woven armor)		
		-AP(PUR water proof armor)		**-XXPS**(≤±XX PS)
		-AS(Stainless steel armor)		**-XX°**(±XX°)
		-AT(Transparent armor)		

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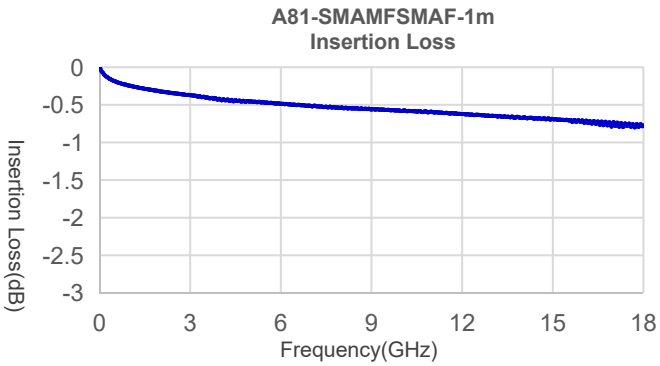
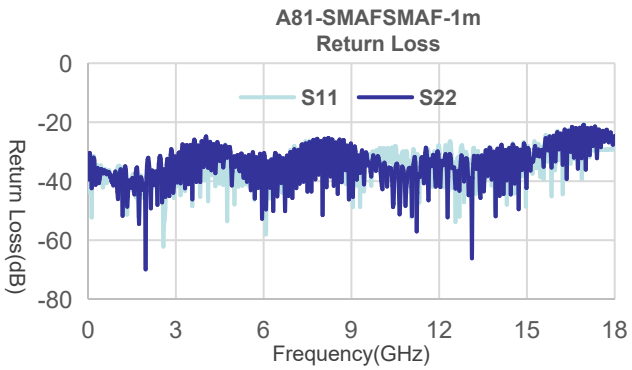
Typical Performance Data:

Model:A81-SMAFSMAF-1m

Frequency	2 GHz		6 GHz		8 GHz		12 GHz		18 GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss （dB）	0.28	0.35	0.50	0.62	0.58	0.72	0.71	0.8	0.80	0.9
VSWR	1.05	1.1	1.08	1.15	1.15	1.2	1.2	1.3	1.25	1.3





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