

R Series Semi-flexible Cable Assemblies

R2 /SMA Male / SMP Female/DC-18 GHz Non-magnetic

Model: R2-SMAMSMPF-L

Features:

- Max Frequency 18 GHz
- VSWR max of 1.35
- Velocity of Propagation of 70%

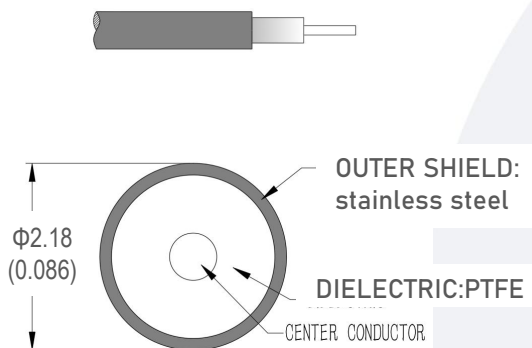
Applications:

- 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		70		dB
Shielding Effectiveness	90			pF/m
Capacitance			81	ohm

Cable Cross Section:



Envrionmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	2.2	mm
Shield Layer	Tinned Copper Braid	
Min. Bending Radius	11	mm
Typical Flex life	500	
Operating Temperature	10mk to +100	°C
Storage Temperature	-55 to +165	°C

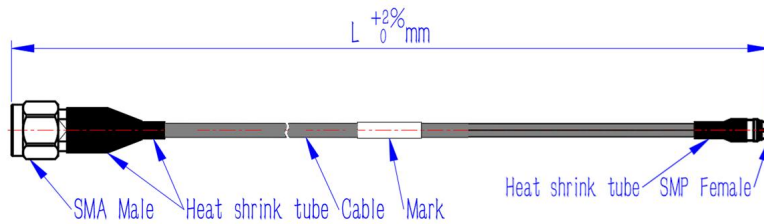
Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	12 GHz	16 GHz	18 GHz
Insertion Loss (dB/m Max)	1.00	1.46	1.84	2.16	2.74	3.24	3.48
RF Power CW(W Max.)	69	47	38	32	25	21	20

Connectors:

Description	Connector 1	Connector 2
Type	SMA Straight Male	SMP Right Angle Female
Contact Material And Plating	Beryllium bronze, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material And Plating	Beryllium bronze, Gold	Beryllium bronze, Gold
Insertion Loss (dB Max)	$0.05 * \sqrt{f_GHz}$	$0.05 * \sqrt{f_GHz}$

Outline Drawing:



Ordering Information:

Base Number	Lenth (Unit mm)	Custom Design Services
R2-SMAMSPF	-L	LEAVE BLANK(NOT REQUIRED) -NM(Non-magnetic)

Typical Performance Data:

Model:R2-SMAMSPF-1m

Frequency	2GHz		6 GHz		12 GHz		18GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss (dB)	1.07	1.14	1.96	2.08	2.91	3.08	3.69	3.91
VSWR	1.05	1.1	1.15	1.20	1.20	1.25	1.25	1.30