SMA Male to SMA Male test cable, SS141 flex, 24 inch. Frequency DC to 18 GHz.

#### **Product Features**

P1CA-SAMSAM-SS141-24 is a 50 Ohm flexible RF test cable with SMA male connectors, 24 inch long.

Frequency is DC to 18 GHz with a max VSWR 1.25.

SS141 flex is a low loss, phase stable cable with an outer diameter of 0.16 inch.



## Electrical Specification: T Ambient = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
VSWR	DC to 1.0	1:			1.1	
	1.0 to 10.0				1.2	
	10.0 to 18.0				1.25	
Insertion Loss	DC to 1.0	dB/ft.			0.13	
	1.0 to 10.0				0.45	
	10.0 to 18.0				0.64	

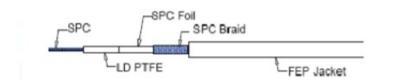
### **Mechanical And Environmental Specifications:**

Parameter	Description	Notes
Connector 1	SMA Male	
Connector 2	SMA Male	
Length	24.0	
RoHS Compliance	Yes	

#### **Drawing**

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### Graph

DIMENSIONS			
Center Conductor Diameter			
(inch)	0.04		
(mm)	1.02		
Dielectric Diameter			
(inch)	0.116		
(mm)	2.95		
Diameter Over Foil			
(inch)	0.124		
(mm)	3.14		
Diameter over Braid			
(inch)	0.136		
(mm)	3.46		
Jacket Diameter			
(inch)	0.163		
(mm)	4.14		
MATERIAL SPECIFICATIONS			
Jacket	FEP		
Braid	Round silver plated copper		
Foil	Flat silver plated copper foil		
Dielectic	LD PTFE		
Center Conductor	Solid SPC		

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<b>ELECTRICAL CHARACTERISTICS</b>	I				
Impedance	50±2				
Capacitance (Nominal)		4. 2.0.2			
(pF/ft)	29.4				
(pF/m)	96.4				
Velocity of Propagation (%)	78				
Cutt Off Frequency (GHz)	40				
Shielding Effectiveness	>-110dB				
Max. Attenuation (dB/100Ft)	Attenuation		Power		
Max Power (Watts)	dB/100Ft	dB/100M			
400MHz	7	23	1100		
1GHz	11	36	550		
3GHz	18.9	62	350		
5GHz	25.3	83	245		
10GHz	37.5	123	140		
18GHz	51.9	170	87		
25GHz	63.5	208	75		
30GHz	71.4	234	68		
35GHz	78.4	257	61		
40GHz	87.8	288	56		
MECHANICAL CHARACTERISTICS		•			
Max. Operating Temperature (°C)	-55/ +200				
Min. Bend Radius	Static		Dynamic		
(inch)	0.48		0.8		
(mm)	12 20				
Weight					
(g/Ft)	13.5				
(g/M)	44.3				

**Product Notes**