

P1CA-SAMSAM-SS141-24

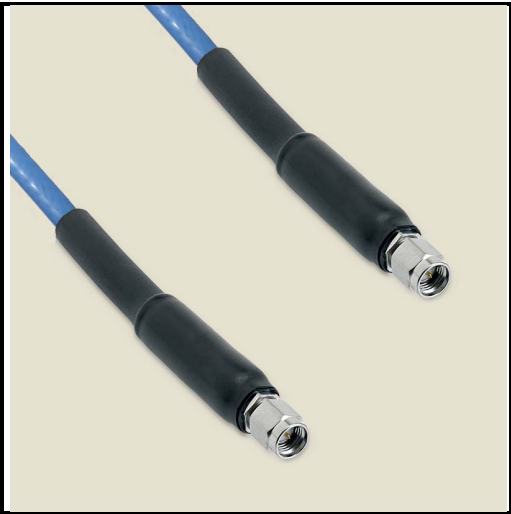
SMA Male to SMA Male test cable, SS141 flex, 24 inch. Frequency DC to 18 GHz.

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	

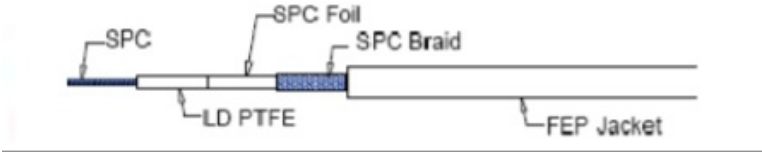
Mechanical And Environmental Specifications:

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
Dielectric	LD PTFE
Center Conductor	Solid SPC

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ELECTRICAL CHARACTERISTICS		
Impedance	50±2	
Capacitance (Nominal)		
(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	
Max Power (Watts)	dB/100Ft	Power
400MHz	7	23
1GHz	11	36
3GHz	18.9	62
5GHz	25.3	83
10GHz	37.5	123
18GHz	51.9	170
25GHz	63.5	208
30GHz	71.4	234
35GHz	78.4	257
40GHz	87.8	288
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