P1CA-SAMSAM-SS141-24

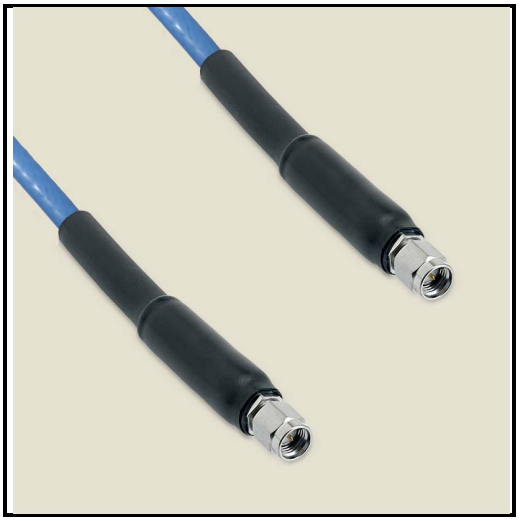
SMA Male to SMA Male test cable, SS141 flex, 24 inch. Frequency DC to 18 GHz.

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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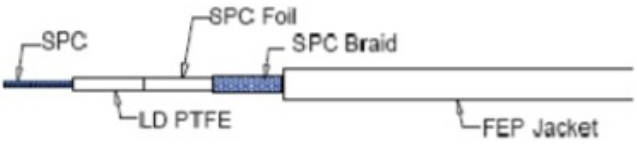

Graph

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
Dielectic	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		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

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