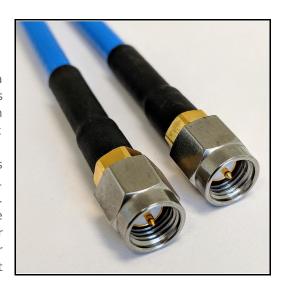


SMA Male to SMA Male test cable using SS141 High Performance Coax, 60 inch.

Product Features

P1CA-SAMSAM-SS141-60 is a flexible 50 Ohm test cable. It is a 60 inch SMA Male to SMA Male cable assembly that utilizes SS141 High Performance coax, which is 0.163 inches in diameter. The SS141 test cable operates to 27 GHz with a max VSWR of 1.3:1.

P1dB's SS141 cable assemblies are general purpose test cables that are dimensionally equivalent to RG402 semi-rigid and 141 conformable coax cables and RG402 electrical specifications. SS141 test cables can operate up to 40 GHz, depending on the installed connectors. The advantage of SS141 test cables over other test cables are their cost-effective design that still offer good phase and amplitude stability for general purpose test systems.



Electrical Specification: T _{Ambient} = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		27.0	
VSWR	DC to 1.0	1:			1.1	
	1.0 to 10.0				1.2	
	10.0 to 18.0				1.25	
	18.0 to 27.0				1.3	
Insertion Loss	DC to 1.0	dB/ft.			0.13	
	1.0 to 10.0				0.45	
	10.0 to 18.0				0.52	
	18.0 to 27.0				0.67	
Velocity Of Propagation		%		70.0		

Mechanical And Environmental Specifications:

Parameter	Description	Notes	
Connector 1	SMA Male		
Connector 1 Coupling Nut	Passivated Stainless Steel		
Connector 1 Body	Passivated Stainless Steel		
Connector 1 Contact	Gold Plated Brass		
Connector 2	SMA Male		
Connector 2 Coupling Nut	Passivated Stainless Steel		
Connector 2 Body	Passivated Stainless Steel		
Connector 2 Contact	Gold Plated Brass		
Coax Cable	High Performance		
Cable Type	SS141		
Cable Inner Conductor	SPC		
Dielectric	PTFE		
Shield	1. SPC Braid, SPC Ribbon		
Jacket	FEP		
Coax Diameter	0.163		

P1dB, Inc.

188 Martinvale Lane, San Jose, CA 95119

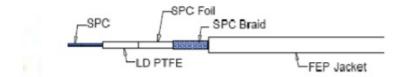
+1(408)613-4857

P1CA-SAMSAM-SS141-60

SMA Male to SMA Male test cable using SS141 High Performance Coax, 60 inch.

Parameter	Description	Notes
Minimum Bend Radius	0.08	
Length	60.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Drawing



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		



P1CA-SAMSAM-SS141-60

SMA Male to SMA Male test cable using SS141 High Performance Coax, 60 inch.

ELECTRICAL CHARACTERISTICS	8	(80) (20) (80) (80)		
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/ +20)	
Min. Bend Radius	Static		Dynamic	
(inch)	0.48		0.8	
(mm)	12		20	
Weight				
(g/Ft)	13.5			
(g/M)	44.3			

Product Notes