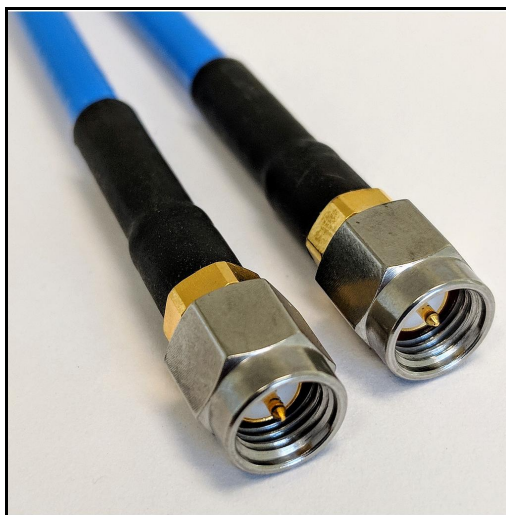


Product Features

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

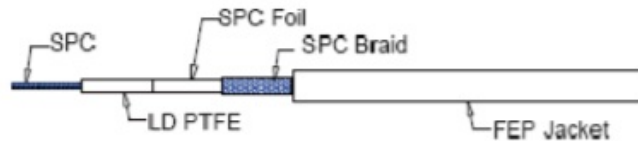
Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		27.0	
VSWR	DC to 1.0	1:			1.1	
	1.0 to 10.0				1.2	
	10.0 to 18.0				1.25	
	18.0 to 27.0				1.3	
Insertion Loss	DC to 1.0	dB/ft.			0.13	
	1.0 to 10.0				0.45	
	10.0 to 18.0				0.52	
	18.0 to 27.0				0.67	
Velocity Of Propagation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

Parameter	Description	Notes
Minimum Bend Radius	0.08	
Length	60.0	
Operating Temperature	-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
Dielectric	LD PTFE
Center Conductor	Solid SPC

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)			
Max Power (Watts)			
400MHz			
1GHz			
3GHz			
5GHz			
10GHz			
18GHz			
25GHz			
30GHz			
35GHz			
40GHz			
MECHANICAL CHARACTERISTICS			
Max. Operating Temperature (°C)		-55/ +200	
Min. Bend Radius			
(inch)			
(mm)			
Weight			
(g/Ft)		13.5	
(g/M)		44.3	

Product Notes