

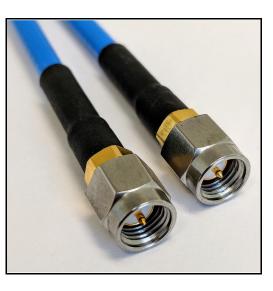
P1CA-SAMSAM-SS141-48-PM

RF cable assembly, SMA Male to SMA Male, SS141 flexible coaxial cable, 48 inch. Supplied as TBD # of cables phase matched +/- 5 degrees at 10 GHz, operating to 18 GHz.

Product Features

P1dB's P1CA-SAMSAM-SS141-48-PM is a 50 Ohm RF cable assembly, supplied as TBD # of phase matched cables. It is an SMA male to SMA male cable using P1dB's SS141 flex coax which is a phase stable RF cable with 0.160 inch (4 mm) outer diameter. This cable is 48 inches long and the cables are phase matched to 5 degrees measured at 10 GHz. Operating to 18 GHz, the P1CA-SAMSAM-SS141-48-PM is a low loss flex cable with a minimum bend radius of 0.4 inches.

Typical delivery for a set of phase matched cables is 4 weeks. Maximum VSWR up to 18 GHz is 1.25.



Electrical Specification: T Ambient = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		18.0	
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	
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		
Minimum Bend Radius	0.8		
Length	48.0		
Operating Temprature	rating Temprature -55.0 to 125.0 °C		
RoHS Compliance	Yes		

188 Martinvale Lane, San Jose, CA 95119



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Drawing

DIMENSIONS			
Center Conductor Diameter			
(inch)	0.037		
(mm)	0.94		
Dielectric Diameter			
(inch)	0.117		
(mm)	2.96		
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	Solid PTFE		
Center Conductor	Solid SPC		

Graph

ELECTRICAL CHARACTERISTICS Impedance		50±2			
Capacitance (Nominal)					
(pF/ft)	29.4				
(pF/m)	96.4				
Velocity of Propagation (%)	70				
Cutt Off Frequency (GHz)	40				
Shielding Effectiveness	>-110dB				
Max. Attenuation (dB/100Ft)	Attenuation		Power		
Max Power (Watts)	dB/100Ft	dB/100M			
400MHz	8	26.24	1100		
1GHz	13	42.6	550		
3GHz	23	75.4	350		
5GHz	30	98.4	245		
10GHz	45	147.6	140		
18GHz	64	209.9	87		

Product Notes

P1dB, Inc.

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