

# P1CA-SPFSMF-SS085-10

SMP straight female to SMPM straight female, SS085 RF flex cable (RG405), 10 inch.

#### **Product Features**

P1CA-SPFSMF-SS085-10 is an RF Flex Cable that is part of P1dB's SS085 series, high performance cable assemblies. It is a 10 inch SMP straight female to SMPM straight female cable assembly that utilizes SS085 High Performance coax, which is 0.104 inches outer diameter. This assembly has a max VSWR 1.35 up to 18 GHz.P1dB's SS085 cable assemblies are high performance RF cables that are dimensionally equivalent to RG405 semi-rigid and 085 conformable coax cables, and have similar electrical specifications to RG405 coax. SS085 RF flex cables can operate up to 50 GHz, depending on the installed connectors. The advantage of SS085 test cables over other test cables are their cost-effective design that still offer good phase and amplitude stability for general purpose test systems.



Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		18.0	
VSWR	DC to 1.0	1:			1.2	
	1.0 to 5.0				1.25	
	5.0 to 10.0				1.3	
	10.0 to 18.0				1.35	
Insertion Loss	DC to 1.0	dB/ft.			0.23	
	1.0 to 5.0				0.52	
	5.0 to 10.0				0.8	
	10.0 to 18.0				1.1	
Velocity Of Propagation		%		70.0		

### Electrical Specification: T Ambient = 25° C

#### **Mechanical And Environmental Specifications:**

Parameter	Description	Notes	
Connector 1	SMP straight		
Connector 1 Coupling Nut	Passivated Stainless Steel		
Connector 1 Body	Passivated Stainless Steel		
Connector 1 Contact	Gold Plated Brass		
Connector 2	Connector 2: SMPM straight		
Connector 2 Coupling Nut	None		
Connector 2 Body	Gold Plated Beryllium Copper		
Connector 2 Contact	Gold Plated Beryllium Copper		
Coax Cable	High Performance		
Cable Type	SS085		
Cable Inner Conductor	SPC		
Dielectric	PTFE		
Shield	1. SPC Ribbon		
	2. SPC Braid		
Jacket	FEP		

188 Martinvale Lane, San Jose, CA 95119

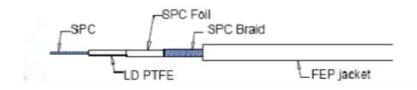


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Parameter	Description	Notes
Coax Diameter	0.104	
Minimum Bend Radius	0.25	
Length	10.0	
Operating Temprature	-55.0 to 165 °C	
RoHS Compliance	Yes	

### Drawing



## Graph

ELECTRICAL CHARACTERISTICS					
Impedance		50±2			
Capacitance (Nominal)					
(pF/ft)	29.4				
(pF/m)	96.4				
Velocity of Propagation (%)	80				
Cutt Off Frequency (GHz)	63				
Shielding Effectiveness	>-110dB				
Max. Attenuation (dB/100Ft)	Attenu	uation	Power		
Max Power (Watts)	dB/100Ft	dB/100M			
400MHz	11.6	38	240		
1GHz	18.3	60	160		
3GHz	33.9	111	80		
5GHz	42.7	140	57		
10GHz	60.1	197	44		
18GHz	82.4	270	33		
25GHz	97.6	320	29		
30GHz	108.3	355	26		
35GHz	118	387	23		
40GHz	129.3	424	22		
45GHz	142.7	468	20		
50GHz	157.1	515	18		



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DIMENSIONS			
Center Conductor Diameter			
(inch)	0.0224		
(mm)	0.57		
Dielectric Diameter			
(inch)	0.064		
(mm)	1.63		
Diameter over Foil			
(inch)	0.07		
(mm)	1.76		
Diameter over Braid			
(inch)	0.085		
(mm)	2.15		
Jacket Diameter			
(inch)	0.104		
(mm)	2.64		
MATERIAL SPECIFICATIONS			
Jacket	FEP		
Braid	Round silver plated copper		
Foil	Flat silver plated copper foil		
Dielectic	LD PTFE		
Center Conductor	Solid silver plated copper		

**Product Notes**