

SMP straight female to SMPM straight female, SS085 RF flex cable (RG405), 12 inch.

Product Features

P1CA-SPFSMF-SS085-12 is an RF Flex Cable that is part of P1dB's SS085 series, high performance cable assemblies. It is a 12 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.



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:			1.2	
	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		

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	

P1dB, Inc.

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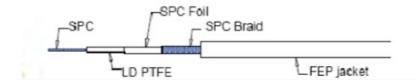
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Parameter	Description	Notes
Coax Diameter	0.104	
Minimum Bend Radius	0.25	
Length	12.0	
Operating Temprature	-55.0 to 165 °C	
RoHS Compliance	Yes	

Drawing



Graph

ELECTRICAL CHARACTERISTICS	I			
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		3	
Max. Attenuation (dB/100Ft)	Attenuation		Power	
Max Power (Watts)	dB/100Ft	dB/100M	4.00.00	
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