

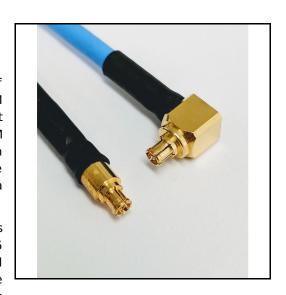
# P1CA-SMFSMFRA-SS085-18

SMPM straight female to SMPM female right angle RF flex cable using SS085 High Performance Coax, 18 inch.

#### **Product Features**

P1CA-SMFSMFRA-SS085-18 is an RF Flex Cable that is part of P1dB's SS085 series, high performance cable assemblies. SMPM connectors are also referred to as SSMP or GPPO (Gilbert trademark). It is a 18 inch SMPM straight female to SMPM female right angle cable assembly that utilizes SS085 High Performance coax, which is 0.104 inches in diameter. The SS085 high performance flex cable operates to 18 GHz with a max VSWR of 1.35:1.

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**<sub>Ambient</sub> = 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	SSMP Female		
Connector 1 Coupling Nut	None		
Connector 1 Body	Gold Plated Beryllium Copper		
Connector 1 Contact	Gold Plated Beryllium Copper		
Connector 2	SSMP Female Right Angle		
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		

Parameter	Description	Notes	
Dielectric	PTFE		
Shield	1. SPC Ribbon		
	2. SPC Braid		
Jacket	FEP		
Coax Diameter	0.104		
Minimum Bend Radius	0.25		
Length	18.0		
Operating Temprature	-55.0 to 165 °C		
RoHS Compliance	Yes		

## **Product Notes**