

# P1CA-STMTPF-ST085-3

SMA Male to SMP Female cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 3 inches long, Operating to 18 GHz.

#### **Product Features**

P1CA-STMTPF-ST085-3 is an RF Cable that is part of P1dB's Tight-Flex<sup>™</sup> cable assembly series. It is a 3 inch SMA Male to SMP Female cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. This Tight-Flex<sup>™</sup> cable assembly operates to 18 GHz with a max VSWR of 1.35.

Tight-Flex<sup>™</sup> cable assemblies are a flexible version of RG405 semi-rigid and 085 conformable coax cables that meet RG405 dimensional and electrical specifications. Tight-Flex<sup>™</sup> cable assemblies can operate up to 40 GHz, depending on the installed connectors. The advantage of Tight-Flex<sup>™</sup> cables over other 085 flex cables are their triple shielding that add additional RF stability even during tight bends.



### **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:			1.15	
	1.0 to 5.0				1.2	
	5.0 to 10.0				1.25	
	10.0 to 18.0				1.35	
Insertion Loss	DC to 1.0	dB/ft.			0.21	
	1.0 to 5.0				0.51	
	5.0 to 10.0				0.75	
	10.0 to 18.0				1.04	
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	SMP Male		
Connector 2 Coupling Nut	None		
Connector 2 Body	Gold Plated Beryllium Copper		
Connector 2 Contact	Gold Plated Beryllium Copper		
Coax Cable	Tight-Flex, Triple Shielded		
Cable Type	ST085		
Cable Inner Conductor	SPCW		
Dielectric	PTFE		
Shield	1. SPC Tape, Aluminum Tape, SPC Braid		
Jacket	FEP		
Coax Diameter	0.104		

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Parameter	Description	Notes
Minimum Bend Radius	0.2	
Length	3.0	
Operating Temprature	-55.0 to 200.0 °C	
RoHS Compliance	Yes	

## **Product Notes**