

# P1CA-STMTMF-ST085-18

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

### **Product Features**

P1CA-STMTMF-ST085-18 is an RF Cable that is part of P1dB's Tight-Flex<sup>™</sup> cable assembly series. It is an 18 inch SMA Male to SMPM Female cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. The Tight-Flex<sup>™</sup> cable assembly operates to 18 GHz with a max VSWR of 1.35. Bend radius is 0.20 inch which allows bends at the connector-to -cable interface.

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 Ambient = 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	SMPM Female		
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		

188 Martinvale Lane, San Jose, CA 95119



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Parameter	Description	Notes
Shield	1. SPC Tape, Aluminum Tape, SPC Braid	
Jacket	FEP	
Coax Diameter	0.104	
Minimum Bend Radius	0.2	
Length	Length (in): 18.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

### Drawing



### Graph



### **Product Notes**