

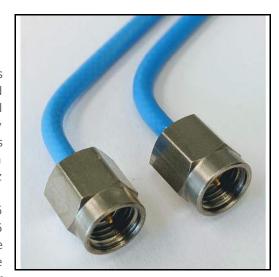
P1CA-STMSTM-ST085-12

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 12 inches long, Operating to 18 GHz.

Product Features

P1CA-STMSTM-ST085-12 is an RF Cable that is part of P1dB's Tight-Flex™ cable assembly series. With a minimum bend radius of 0.2 inch, the cable allows bends at the connector end eliminating the need for a right angle connector. This assembly a 12 inch SMA Male to SMA Male cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. The Tight-Flex™ cable assembly operates to 18 GHz with a max VSWR of 1.30:1.

Tight-Flex[™] cable assemblies are a flexible version of RG405 semi-rigid and 085 conformable coax cables that meet RG405 dimensional and electrical specifications. Tight-Flex[™] cable assemblies can operate up to 40 GHz, depending on the installed connectors. The advantage of Tight-Flex[™] 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				1.3	
Insertion Loss	DC to 1.0	dB/ft.			0.2	
	1.0 to 5.0				0.5	
	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	SMA Male		
Connector 1 Coupling Nut	Passivated Stainless Steel		
Connector 1 Body	Passivated Stainless Steel		
Connector 1 Contact	Gold Plated Brass		
Connector 2	SMA Male		
Connector 2 Coupling Nut	Passivated Stainless Steel		
Connector 2 Body	Passivated Stainless Steel		
Connector 2 Contact	Gold Plated Brass		
Coax Cable	Tight-Flex, Triple Shielded		
Cable Type	ST085		
Cable Inner Conductor	SPCW		
Dielectric	PTFE		
Shield	1. SPC Tape, Aluminum Tape, SPC Braid		

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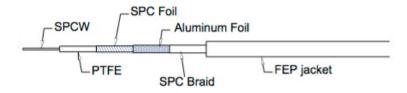


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SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 12 inches long, Operating to 18 GHz.

Parameter	Description	Notes
Jacket	FEP	
Coax Diameter	0.104	
Minimum Bend Radius	0.2	
Length	12.0	
Operating Temprature	-55.0 to 125.0 °C	
RoHS Compliance	Yes	

Drawing



Graph



P1CA-STMSTM-ST085-12

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 12 inches long, Operating to 18 GHz.

Center Conductor Diameter (inch)			
	0.51		
0.0641			
0.0708			
1.80			
0.0748			
0.0885			
	E.EU		
0.104			
	2.04		
	FEDIDILIE		
	SOIN OF ST		
	60+2		
	DUIZ		
29.4			
96.4			
70			
63			
		Power	
		240	
		160 80	
52	170.6	57	
		44	
		33	
		29	
		26	
173	525	23 22	
	: 00/		
183	600	20	
	Attenuati dB/100Ft 14 23 39 52 80 110 131 146 160	0.0641 1.63 0.0708 1.80 0.0748 1.90 0.0885 2.25 0.104 2.64 FEP(BLUE) Round Silver Plated Copper Aliminium Tape Silver Plated Copper Tape Solid PTFE Solid SPCW 50±2 29.4 96.4 70 63 >-110dB Attenuation dB/100Ft dB/100M 14 45.9 23 75.4 39 128 52 170.6 80 262.4 110 361 131 430 146 479 160 525	

Product Notes