

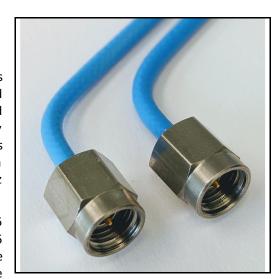
P1CA-STMSTM-ST085-10

SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 10 inches long, Operating to 18 GHz.

Product Features

P1CA-STMSTM-ST085-10 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 10 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.			0.21	
	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	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	

P1dB, Inc.

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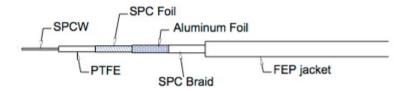


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SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 10 inches long, Operating to 18 GHz.

Parameter	Description	Notes
Shield	1. SPC Tape, Aluminum Tape, SPC Braid	
Jacket	FEP	
Coax Diameter	0.104	
Minimum Bend Radius	0.2	
Length	10.0	
Operating Temprature	-55.0 to 200.0 °C	
RoHS Compliance	Yes	

Drawing



Graph



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SMA Male to SMA Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 10 inches long, Operating to 18 GHz.

Center Conductor Diameter (inch)				
(inch) 0.0201 (mm) 0.51 Dielectric Diameter				
(mm) 0.51 Dielectric Diameter				
Dielectric Diameter				
1.75-00 7.55-7.55-7.55-7.55				
(1101)				
()				
	1.63			
Diameter Over Inner Foil (inch) 0.0708	0.0708			
(mm) 1.80				
Diameter Over Outer Foil (inch) 0.0748				
(mm) 1.90				
Diameter over Braid				
	0.0885			
(mm) 2.25				
Jacket Diameter				
(inch) 0.104				
(mm) 2.64 MATERIAL SPECIFICATIONS				
outhor	FEP(BLUE)			
	Round Silver Plated Copper			
	Aliminium Tape			
	Silver Plated Copper Tape			
	Solid PTFE			
ELECTRICAL CHARACTERISTICS				
Impedance 50±2				
Capacitance (Nominal)				
(pF/ft) 29.4				
(pF/m) 96.4				
Velocity of Propagation (%) 70	70			
Cutt Off Frequency (GHz) 63	63			
Silvering Elizabeth Silvering	>-110dB			
Max. Attenuation Attenuation	Power			
Max Power (Watts) dB/100Ft dB/100M				
400MHz 14 45.9	240			
1GHz 23 75.4 3GHz 39 128	160 80			
5GHz 52 170.6	57			
10GHz 80 262.4	44			
18GHz 110 361	33			
25GHz 131 430	29			
30GHz 146 479	26			
35GHz 160 525	23			
40GHz 173 567	22			
45GHz 183 600	20			
50GHz 195 640	18			

Product Notes

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)