

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 2 inch

#### **Product Features**

P1CA-29M29M-ST085-2 is an RF Cable that is part of P1dB's Tight-Flex<sup>™</sup> 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. It is a 2 inch 2.92mm Male to 2.92mm Male 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 40 GHz with a max VSWR of 1.35:1.

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.



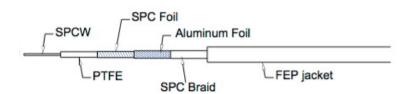
## **Electrical Specification: T**<sub>Ambient</sub> = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		40.0	

#### **Mechanical And Environmental Specifications:**

Parameter	Description	Notes	
Connector 1	2.92mm Male		
Connector 2	2.92mm Male		
Coax Cable	Tight-Flex, Triple Shielded		
Cable Type	ST085		
Coax Diameter	0.104		
Length	2.0		
RoHS Compliance	Yes		

### **Drawing**



## Graph

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DIMENSIONS						
Center Conductor Diameter						
(inch)	0.0201					
(mm)	0.51					
Dielectric Diameter						
(inch)		0.0641				
(mm)	1.63					
Diameter Over Inner Foil		1.00				
(inch)	0.0708					
(mm)	1.80					
Diameter Over Outer Foil		1.00				
(inch)	0.0748					
(mm)		1.90				
Diameter over Braid		1.00				
(inch)	0.0885					
(mm) Jacket Diameter		2.25				
		0.404				
(inch)		0.104				
(mm)	2.64					
MATERIAL SPECIFICATIONS						
Jacket	FEP(BLUE)					
Braid	Round Silver Plated Copper					
Outer Foil	Aliminium Tape					
Inner Foil	Silver Plated Copper Tape					
Dielectic	Solid PTFE					
Center Conductor		Solid SPCW				
ELECTRICAL CHARACTERISTICS						
Impedance		50±2				
Capacitance (Nominal)						
(pF/ft)	29.4					
(pF/m)	96.4					
Velocity of Propagation (%)	70					
Cutt Off Frequency (GHz)	63					
Shielding Effectiveness	> -110dB					
Max. Attenuation	Attenuation		Power			
Max Power (Watts)	dB/100Ft	dB/100M				
400MHz	14	45.9	240			
1GHz 3GHz	23 39	75.4 128	160 80			
5GHz	52	170.6	57			
10GHz	80	262.4	44			
18GHz	110	361	33			
25GHz	131 146	430 479	29			
			26 23			
30GHz 35GHz	160					
30GHz 35GHz 40GHz	160 173	525 567				
35GHz		525 567 600	22 20			

## **Product Notes**