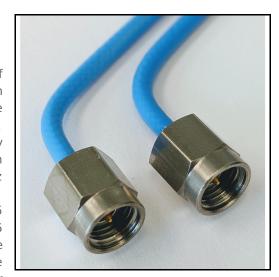


2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 48 inch.

### **Product Features**

P1CA-29M29M-ST085-48 is a 50 Ohm 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. It is a 48 inch 2.92mm Male to 2.92mm Male cable assembly that utilizes ST085 triple shielded coax, which is 0.104 inches in diameter. The Tight-Flex™ cable assembly operates to 40 GHz with a maximum 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.



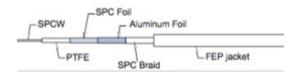
## **Electrical Specification: T**<sub>Ambient</sub> = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		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	h 48.0		
RoHS Compliance	Yes		

## **Drawing**



# Graph

P1dB, Inc.



# P1CA-29M29M-ST085-48

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 48 inch.

DIMENSIONS				
Center Conductor Diameter				
(inch)		0.0201		
	0.51			
(mm) Dielectric Diameter		0.01		
		0.0644		
(inch)	0.0641			
(mm)	1.63			
Diameter Over Inner Foil				
(inch)	0.0708			
(mm)	1.80			
Diameter Over Outer Foil				
(inch)	0.0748			
(mm)	1.90			
Diameter over Braid				
(inch)	0.0885			
(mm)	2.25			
Jacket Diameter				
(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 Max Power (Watts)	Attenuation dB/100Ft	dB/100M	Power	
400MHz	14	45.9	240	
1GHz	23	75.4	160	
3GHz 5GHz	39 52	128 170.6	80 57	
10GHz	80	262.4	44	
18GHz	110	361	33	
25GHz	131	430	29	
30GHz	146 479 160 525		26	
35GHz 40GHz	160 525 23 173 567 22		23	
700112		307	20	
45GHz	183	600	70	

### **Product Notes**



# P1CA-29M29M-ST085-48

2.92mm Male to 2.92mm Male cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 48 inch.