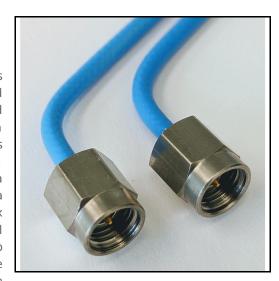




2.92mm Male to 2.92mm male cable assembly using ST085 Tight-Flex, triple shielded coax, 36 inch

Product Features

P1CA-29M29M-ST085-36 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. It is a 36 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™ 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.



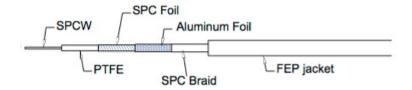
Electrical Specification: T_{Ambient} = 25° C

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Frequency Range		GHz	DC		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	36.0		
RoHS Compliance	Yes		

Drawing



Graph

P1dB, Inc.

188 Martinvale Lane, San Jose, CA 95119

+1(408)613-4857



P1CA-29M29M-ST085-36

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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 (inch)	0.0709				
	0.0708				
(mm)	1.80				
Diameter Over Outer Foil		0.0740			
(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)	29.4 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	23	75.4	160		
3GHz	39	128	80		
5GHz 10GHz	52 80	170.6 262.4	57 44		
18GHz	110	361	33		
25GHz	131	430	29		
30GHz	146	479	26		
35GHz	160 525		23		
40GHz	173 567 22		22		
45GHz	183	600	20		
50GHz	195	640	18		

Product Notes