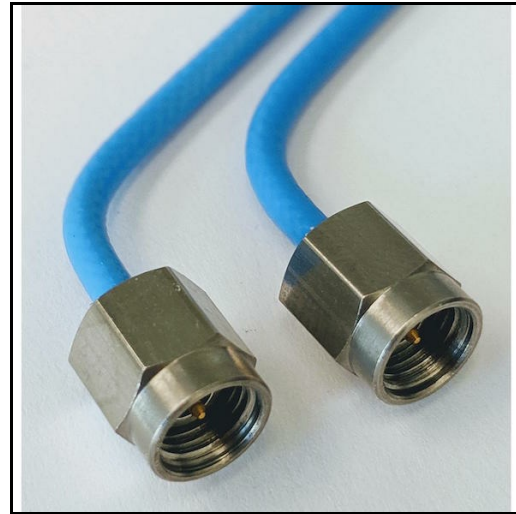


Product Features

P1CA-29M29M-ST085-12 is an RF cable assembly 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 12 inch 2.92mm Male to 2.92mm Male cable assembly that utilizes ST085 Tight-Flex, triple shield coax, which is 0.104 inch (2.6 mm) diameter. The Tight-Flex™ cable assembly operates to 40 GHz with a max VSWR of 1.35:1. Max Insertion Loss at 40 GHz for this 12 inch assembly is 1.75 dB. RF shielding > 110 dB. Velocity of Propagation is 70 %.

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 is triple shield construction for great RF shielding and RF stability during tight bends.



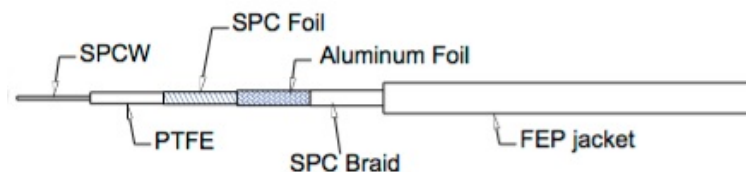
Electrical Specification: T_{Ambient} = 25° C

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	12.0	
RoHS Compliance	Yes	

Drawing



DIMENSIONS																																											
Center Conductor Diameter																																											
(inch)	0.0201																																										
(mm)	0.51																																										
Dielectric Diameter																																											
(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	Aluminium Tape																																										
Inner Foil	Silver Plated Copper Tape																																										
Dielectric	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)	<table><tr><th colspan="2">Attenuation</th><th>Power</th></tr><tr><th>dB/100Ft</th><th>dB/100M</th><th></th></tr><tr><td>400MHz</td><td>45.9</td><td>240</td></tr><tr><td>1GHz</td><td>75.4</td><td>160</td></tr><tr><td>3GHz</td><td>128</td><td>80</td></tr><tr><td>5GHz</td><td>170.6</td><td>57</td></tr><tr><td>10GHz</td><td>262.4</td><td>44</td></tr><tr><td>18GHz</td><td>361</td><td>33</td></tr><tr><td>25GHz</td><td>430</td><td>29</td></tr><tr><td>30GHz</td><td>479</td><td>26</td></tr><tr><td>35GHz</td><td>525</td><td>23</td></tr><tr><td>40GHz</td><td>567</td><td>22</td></tr><tr><td>45GHz</td><td>600</td><td>20</td></tr><tr><td>50GHz</td><td>640</td><td>18</td></tr></table>	Attenuation		Power	dB/100Ft	dB/100M		400MHz	45.9	240	1GHz	75.4	160	3GHz	128	80	5GHz	170.6	57	10GHz	262.4	44	18GHz	361	33	25GHz	430	29	30GHz	479	26	35GHz	525	23	40GHz	567	22	45GHz	600	20	50GHz	640	18
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Product Notes

Temp range: -55 to +125 deg C

Minimum bend radius: 0.2 inch (5.1 mm)