# P1CA-STMTPF-ST085-9

SMA Male to SMP Female cable assembly using ST085 Tight-Flex, Triple Shielded Coax, 9 inches long, Operating to 18 GHz.



## Product Features

P1CA-STMTPF-ST085-9 is an RF Cable that is part of P1dB's Tight-Flex™ cable assembly series. It is a 9 inch SMA Male to SMP Female cable assembly that utilizes ST085 Tight-Flex, Triple Shielded coax, which is 0.104 inches in diameter. This Tight-Flex™ cable assembly operates to 18 GHz with a max 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 | | 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 | | | | 1.35 | |
| 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 | SMP Male | |
| Connector 2 Coupling Nut | None | |
| Connector 2 Body | Gold Plated Beryllium Copper | |
| Connector 2 Contact | Gold Plated Beryllium Copper | |
| Coax Cable | Tight-Flex, Triple Shielded | |
| Cable Type | ST085 | |
| Cable Inner Conductor | SPCW | |
| Dielectric | PTFE | |
| Shield | 1. SPC Tape, Aluminum Tape, SPC Braid | |
| Jacket | FEP | |
| Coax Diameter | 0.104 | |

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| Parameter | Description | Notes |
|---|---|---|
| Minimum Bend Radius | 0.2 | |
| Length | 9.0 | |
| Operating Temprature | -55.0 to 200.0 °C | |
| RoHS Compliance | Yes | |

**Product Notes**

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