## Product Features

P1CA-SAMSAM-085CJ-18 is an RF Cable that is part of P1dB's YouForm ${ }^{\text {TM }}$ conformable cable assembly series. It is a 18 inch SMA Male to SMA Male Jacketed Conformable cable assembly that utilizes 085CJ conformable coax with a diameter of 0.102 inches. The RF cable assembly operates to 26.5 GHz with a max VSWR of 1.35:1. YouForm ${ }^{\text {TM }}$ cables are conformable and jacketed conformable versions 085 and 141 semi-rigid coax cables and meet RG402 and RG405 dimensional and electrical specifications. YouForm ${ }^{\text {TM }}$ cable assemblies can operate up to 26.5 GHz , depending on the configuration. The advantage of
 YouForm ${ }^{\text {TM }}$ conformable cables over semi-rigid are their ability to be formed by hand multiple times, while semi-rigid cables can be formed only once with special bending tools.

## Electrical Specification: $\mathrm{T}_{\text {Ambient }}=25^{\circ} \mathrm{C}$

| Parameter | Frequency Range | Units | Min | Typical | Max | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Frequency Range |  | GHz | DC |  | 26.5 |  |
| VSWR | DC to 1.0 | 1: |  |  | 1.25 |  |
|  | 1.0 to 5.0 |  |  |  | 1.3 |  |
|  | 5.0 to 10.0 |  |  |  | 1.32 |  |
|  | 10.0 to 26.5 |  |  |  | 1.35 |  |
| Insertion Loss | DC to 1.0 | $\mathrm{dB} / \mathrm{ft}$. |  |  | 0.22 |  |
|  | 1.0 to 5.0 |  |  |  | 0.49 |  |
|  | 5.0 to 10.0 |  |  |  | 0.83 |  |
|  | 10.0 to 26.5 |  |  |  | 1.18 |  |
| 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 | Gold Plated Brass |  |
| P1dB, Inc. | 188 Martinvale Lane, San Jose, CA 95119 | $+1(408) 613-4857$ |

SMA Male to SMA Male cable assembly using 085CJ Jacketed Conformable Coax, 18 inches long, Operating to 26.5 GHz .

| Parameter | Description | Notes |
| :--- | :---: | :---: |
| Connector 1 Contact | Gold Plated Brass |  |
| Connector 2 | SMA Male |  |
| Connector 2 Coupling Nut | Passivated Stainless Steel |  |
| Connector 2 Body | Gold Plated Brass |  |
| Connector 2 Contact | Gold Plated Brass |  |
| Coax Cable | Jacketed Conformable |  |
| Cable Type | 085CJ |  |
| Cable Inner Conductor | SPCW |  |
| Dielectric | PTFE |  |
| Shield | 1.Tinned Cu/Sn Braid |  |
| Jacket | FEP |  |
| Coax Diameter | 0.102 |  |
| Minimum Bend Radius | 0.38 |  |
| Length | 18.0 |  |
| RoHS Compliance | Yes |  |

## Drawing



## Product Notes

