## Product Features

P1-SMAPRA/SMAPRA-085CJ-17 is an RF Cable that is part of P1dB's YouForm ${ }^{\text {TM }}$ conformable cable assembly series. It is a 17 inch SMA Male Right Angle to SMA Male Right Angle Jacketed Conformable cable assembly that utilizes 085CJ conformable coax with a diameter of 0.102 inches. The RF cable assembly operates to 18 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 18 GHz , depending on the configuration. The advantage of YouForm ${ }^{\mathrm{TM}}$ 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 |  | 18.0 |  |
| VSWR | DC to 1.0 | 1 : |  |  | 1.2 |  |
|  | 1.0 to 5.0 |  |  |  | 1.25 |  |
|  | 5.0 to 10.0 |  |  |  | 1.26 |  |
|  | 10.0 to 18.0 |  |  |  | 1.35 |  |
| Insertion Loss | DC to 1.0 | dB/ft. |  |  | 0.22 |  |
|  | 1.0 to 5.0 |  |  |  | 0.49 |  |
|  | 5.0 to 10.0 |  |  |  | 0.83 |  |
|  | 10.0 to 18.0 |  |  |  | 1.18 |  |
| Velocity Of Propagation |  | \% |  | 70.0 |  |  |

## Mechanical And Environmental Specifications:

| Parameter | Description | Notes |
| :--- | :---: | :---: |
| Connector 1 | SMA Male Right Angle |  |
| Connector 1 Coupling Nut | Passivated Stainless Steel |  |
| Connector 1 Body | Gold Plated Brass |  |
| Connector 1 Contact | Gold Plated Brass |  |
| Connector 2 | SMA Male Right Angle |  |
| 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 |  |  |

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| Parameter | Description | Notes |
| :--- | :---: | :---: |
| Coax Diameter | 0.102 |  |
| Minimum Bend Radius | 0.38 |  |
| Length | 17.0 |  |
| Operating Temprature | -85.0 to $200.0^{\circ} \mathrm{C}$ |  |
| RoHS Compliance | Yes |  |

## Drawing



## Product Notes

