# P1-SMAP/SMAPRA-085CJ-3

SMA Male to SMA Male Right Angle cable assembly using 085CJ Jacketed Conformable Coax, 3 inches long, Operating to 18 GHz.

**Product Features**

P1-SMAP/SMAPRA-085CJ-3 is an RF Cable that is part of P1dB's YouForm™ conformable cable assembly series. It is a 3 inch SMA Male 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™ cables are conformable and jacketed conformable versions 085 and 141 semi-rigid coax cables and meet RG402 and RG405 dimensional and electrical specifications. YouForm™ cable assemblies can operate up to 18 GHz, depending on the configuration. The advantage of YouForm™ 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: $T_{Ambient}$ = 25° C**

| Parameter | Frequency Range | Units | Min | Typical | Max | Notes |
|---|---|---|---|---|---|---|
| Frequency Range | | GHz | DC | | 18.0 | |
| VSWR | DC to 1.0 | 1: | | | 1.2 | |
| | 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 | |
| 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 | FEP | |
| Coax Diameter | 0.102 | |

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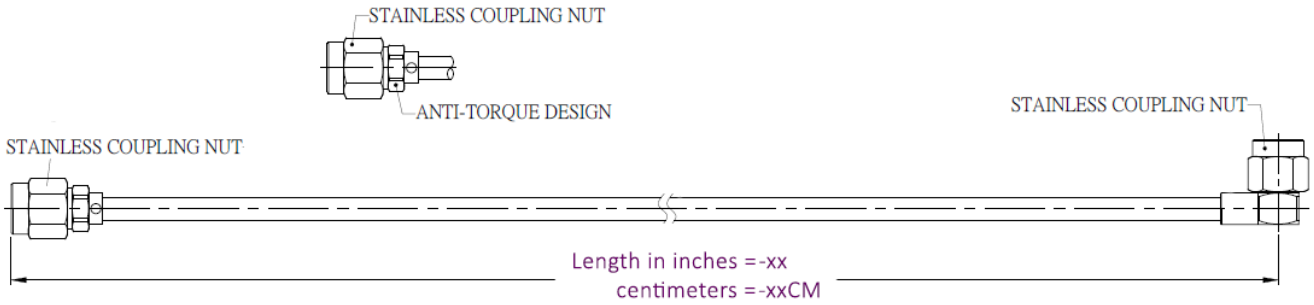
| Parameter | Description | Notes |
|---|---|---|
| Minimum Bend Radius | 0.38 | |
| Length | 3.0 | |
| Operating Temprature | -85.0 to 200.0 °C | |
| RoHS Compliance | Yes | |

**Drawing**




**Product Notes**

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