

## Product Features

P1CA-SAMSAM-141CC-7 is an RF Cable that is part of P1dB's YouForm™ conformable cable assembly series. It is a 7 inch SMA Male to SMA Male Conformable cable assembly that utilizes 141CC conformable coax with a diameter of 0.141 inches. The RF cable assembly operates to 26.5 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 26.5 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<sub>Ambient</sub> = 25° C

| Parameter               | Frequency Range | Units  | Min | Typical | Max  | Notes |
|-------------------------|-----------------|--------|-----|---------|------|-------|
| Frequency Range         |                 | GHz    | DC  |         | 26.5 |       |
| VSWR                    | DC to 1.0       | 1:     |     |         | 1.1  |       |
|                         | 1.0 to 5.0      |        |     |         | 1.1  |       |
|                         | 5.0 to 10.0     |        |     |         | 1.15 |       |
|                         | 10.0 to 26.5    |        |     |         | 1.35 |       |
| Insertion Loss          | DC to 1.0       | dB/ft. |     |         | 0.12 |       |
|                         | 1.0 to 5.0      |        |     |         | 0.31 |       |
|                         | 5.0 to 10.0     |        |     |         | 0.45 |       |
|                         | 10.0 to 26.5    |        |     |         | 0.65 |       |
| Velocity Of Propagation |                 | %      |     | 70.0    |      |       |

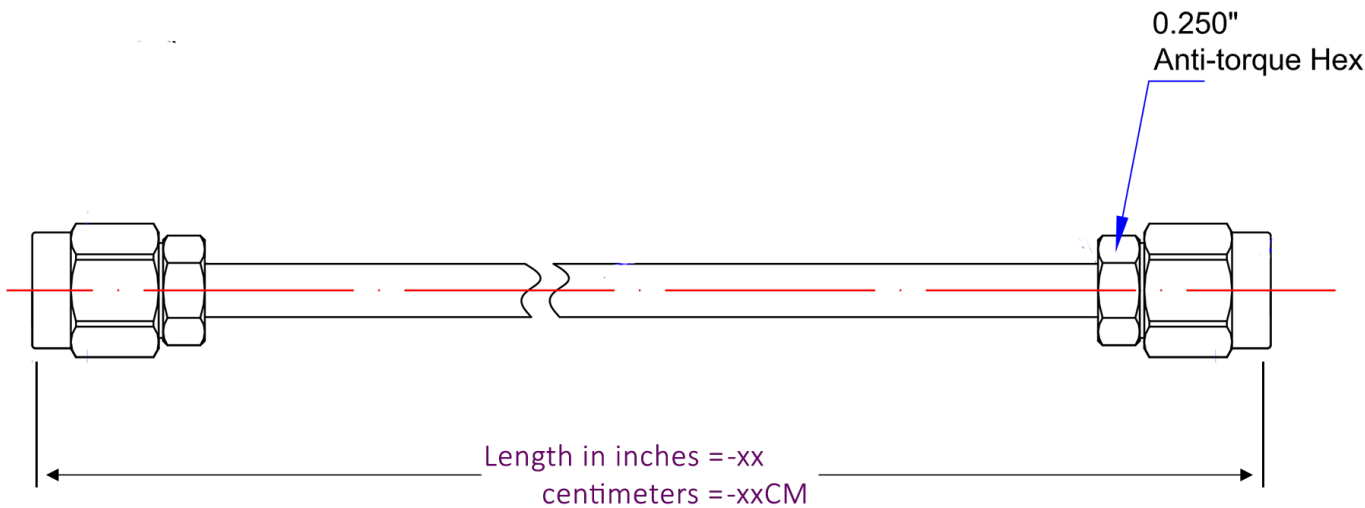
## Mechanical And Environmental Specifications:

| 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                   |       |
| Connector 2 Coupling Nut | Passivated Stainless Steel |       |
| Connector 2 Body         | Gold Plated Brass          |       |
| Connector 2 Contact      | Gold Plated Brass          |       |
| Coax Cable               | Conformable                |       |
| Cable Type               | 141CC                      |       |
| Cable Inner Conductor    | SPCW                       |       |
| Dielectric               | PTFE                       |       |
| Shield                   | 1. Tinned Cu/Sn Braid      |       |

SMA Male to SMA Male cable assembly using 141CC Conformable Coax, 7 inches long,  
Operating to 26.5 GHz.

| Parameter             | Description       | Notes |
|-----------------------|-------------------|-------|
| Jacket                | FEP               |       |
| Coax Diameter         | 0.141             |       |
| Minimum Bend Radius   | 0.38              |       |
| Length                | 7.0               |       |
| Operating Temperature | -85.0 to 200.0 °C |       |
| RoHS Compliance       | Yes               |       |

**Drawing**



**Product Notes**