

## Product Features

P1CA-SAMSAM-RG316-12 is a cable that is part of P1dB's RG series flex cable assemblies. It is a 12 inch SMA Male to SMA Male cable assembly, RG-316 flex coax, which is 0.098 inches in diameter. The cable operates DC to 6 GHz with a max VSWR of 1.35:1.



## Electrical Specification: T<sub>Ambient</sub> = 25° C

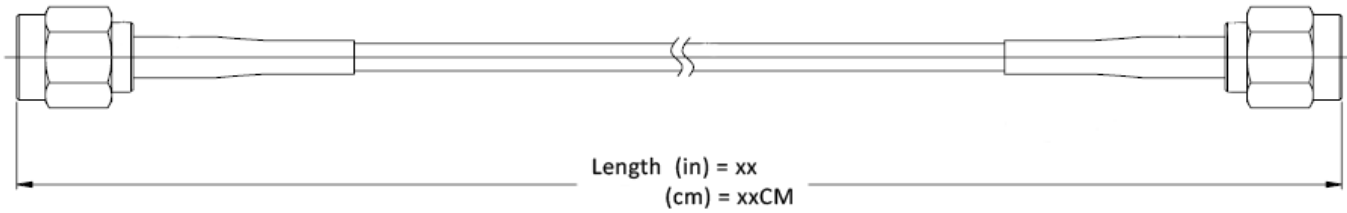
| Parameter               | Frequency Range | Units  | Min | Typical | Max  | Notes |
|-------------------------|-----------------|--------|-----|---------|------|-------|
| Frequency Range         |                 | GHz    | DC  |         | 6.0  |       |
| VSWR                    | DC to 0.4       | 1:     |     |         | 1.2  |       |
|                         | 0.4 to 1.0      |        |     |         | 1.25 |       |
|                         | 1.0 to 2.4      |        |     |         | 1.3  |       |
|                         | 2.4 to 0.5      |        |     |         | 1.35 |       |
| Insertion Loss          | DC to 0.4       | dB/ft. |     |         | 0.18 |       |
|                         | 0.4 to 1.0      |        |     |         | 0.31 |       |
|                         | 1.0 to 2.4      |        |     |         | 0.49 |       |
|                         | 2.4 to 0.5      |        |     |         | 0.67 |       |
| Velocity Of Propagation |                 | %      |     | 69.5    |      |       |

## Mechanical And Environmental Specifications:

| Parameter                | Description       | Notes |
|--------------------------|-------------------|-------|
| Connector 1              | SMA Male          |       |
| Connector 1 Coupling Nut | Gold Plated Brass |       |
| Connector 1 Body         | Gold Plated Brass |       |
| Connector 1 Contact      | Gold Plated Brass |       |
| Connector 2              | SMA Male          |       |
| Connector 2 Coupling Nut | Gold Plated Brass |       |
| Connector 2 Body         | Gold Plated Brass |       |
| Connector 2 Contact      | Gold Plated Brass |       |
| Coax Cable               | RG Type Flex      |       |
| Cable Type               | RG-316            |       |
| Cable Inner Conductor    | 7/.0067 SPCW      |       |
| Dielectric               | PTFE              |       |
| Shield                   | 1. SPC Braid      |       |
| Jacket                   | FEP               |       |
| Coax Diameter            | 0.098             |       |
| Minimum Bend Radius      | 0.5               |       |
| Length                   | 12.0              |       |

| Parameter             | Description       | Notes |
|-----------------------|-------------------|-------|
| Operating Temperature | -55.0 to 200.0 °C |       |
| RoHS Compliance       | Yes               |       |

**Drawing**



**Product Notes**