

Product Features

P1-SMAP/SMAPRA-141CJ-16 is an RF Cable that is part of P1dB's YouForm™ conformable cable assembly series. It is a 16 inch SMA Male to SMA Male Right Angle Jacketed Conformable cable assembly that utilizes 141CJ conformable coax with a diameter of 0.168 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. | | | 0.12 | |
| | 1.0 to 5.0 | | | | 0.3 | |
| | 5.0 to 10.0 | | | | 0.45 | |
| | 10.0 to 18.0 | | | | 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 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 | 141CJ | |
| Cable Inner Conductor | SPCW | |
| Dielectric | PTFE | |
| Shield | 1. Tinned Cu/Sn Braid | |
| Jacket | FEP | |
| Coax Diameter | 0.168 | |

| Parameter | Description | Notes |
|-----------------------|-------------------|-------|
| Minimum Bend Radius | 0.38 | |
| Length | 16.0 | |
| Operating Temperature | -85.0 to 200.0 °C | |
| RoHS Compliance | Yes | |

Drawing



Product Notes