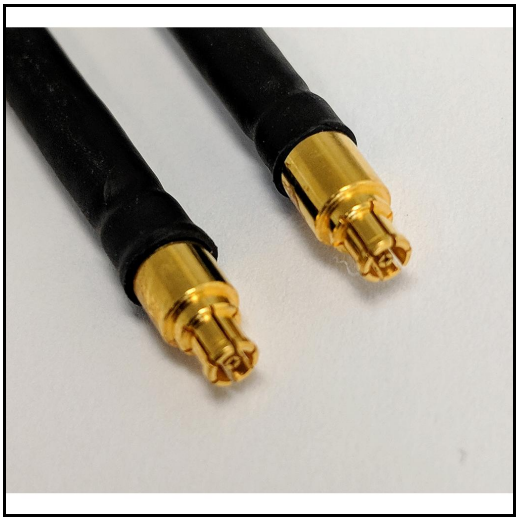
# P1CA-SMFSMF-SS085-12

SMPM female straight to SMPM female straight RF flex cable using SS085 High Performance Coax, 12 inch.



## Product Features

P1CA-SMFSMF-SS085-12 is an RF Flex Cable that is part of P1dB's SS085 series, high performance cable assemblies. It is a 12 inch SMPM straight female to SMPM straight female cable assembly that utilizes SS085 High Performance coax, which is 0.104 inches in diameter. SMPM connectors are also referred to as SSMP or GPPO (Gilbert trademark).

P1dB's SS085 high performance flex cable operates to 18 GHz with a max VSWR of 1.35:1. P1dB's SS085 cable assemblies are high performance RF cables that are dimensionally equivalent to RG405 semi-rigid and 085 conformable coax cables, and have similar electrical specifications to RG405 coax. SS085 RF flex cables can operate up to 50 GHz, depending on the installed connectors. The advantage of SS085 test cables over other test cables are their cost-effective design that still offer good phase and amplitude stability for general purpose test systems.

## 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 | | | | 1.3 | |
| | 10.0 to 18.0 | | | | 1.35 | |
| Insertion Loss | DC to 1.0 | dB/ft. | | | 0.23 | |
| | 1.0 to 5.0 | | | | 0.52 | |
| | 5.0 to 10.0 | | | | 0.8 | |
| | 10.0 to 18.0 | | | | 1.1 | |
| Velocity Of Propagation | | % | | 70.0 | | |

## Mechanical And Environmental Specifications:

| Parameter | Description | Notes |
|---|---|---|
| Connector 1 | Connector 1: SMPM Female straight | |
| Connector 1 Coupling Nut | None | |
| Connector 1 Body | Gold Plated Beryllium Copper | |
| Connector 1 Contact | Gold Plated Beryllium Copper | |
| Connector 2 | SMPM Female straight | |
| Connector 2 Coupling Nut | None | |
| Connector 2 Body | Gold Plated Beryllium Copper | |
| Connector 2 Contact | Gold Plated Beryllium Copper | |
| Coax Cable | High Performance | |
| Cable Type | SS085 | |
| Cable Inner Conductor | SPC | |

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| Parameter | Description | Notes |
|---|---|---|
| Dielectric | PTFE | |
| Shield | 1. SPC Ribbon | |
| | 2. SPC Braid | |
| Jacket | FEP | |
| Coax Diameter | 0.104 | |
| Minimum Bend Radius | 0.25 | |
| Length | 12.0 | |
| Operating Temprature | -55.0 to 165 °C | |
| RoHS Compliance | Yes | |

**Product Notes**

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