

**Product Features**

P1CA-SAMNM-195TM-60 is a 50 Ohm flexible test cable, 0.195 inch outer diameter, operating to 18 GHz. This assembly is a low loss, phase stable cable with precision stainless steel SMA male to N male connectors, 60 inches long. Triple shield design for high RF isolation and microporous dielectric for low insertion loss. Enhanced cable-to-connector boot extends the operating life of this rugged test cable.

Typical insertion loss at 18 Ghz is 0.68 dB/ ft. Velocity of propagation is 70%. Maximum VSWR is 1.30 to 18 GHz.

Phase stability vs. flexure is +/- 2 degrees to 18 GHz.



**Electrical Specification: T Ambient = 25° C**

| Parameter       | Frequency Range | Units | Min | Typical | Max  | Notes |
|-----------------|-----------------|-------|-----|---------|------|-------|
| Frequency Range |                 | GHz   | DC  |         | 18.0 |       |

**Mechanical And Environmental Specifications:**

| Parameter       | Description | Notes |
|-----------------|-------------|-------|
| Connector 1     | SMA Male    |       |
| Connector 2     | N Male      |       |
| Coax Cable      | Test Grade  |       |
| Cable Type      | 195TM       |       |
| Coax Diameter   | 0.195       |       |
| Length          | 60.0        |       |
| RoHS Compliance | Yes         |       |

**Drawing**

**Mechanical Specification**

| Parameter                              | Description  | Notes           |
|--|--|-----------------|
| Connector Type                         | SMA (18 GHz or 26.5 GHz), N, TNC, BNC  | Male and Female |
| Connector Body Material and Plating    | Passivated Stainless Steel   |                 |
| Connector Contact Material and Plating | Gold Plated Beryllium Copper   |                 |
| Connector Retention                    | 170 lbs.   |                 |
| Mating Cycles                          | >5,000   | SMA, N and TNC  |
| Cable Inner Conductor                  | Silver Plated Solid Copper   |                 |
| Dielectric                             | PTFE   |                 |
| Shield                                 | <ol style="list-style-type: none"> <li>1. Silver Plated Copper Flat Ribbon Braid</li> <li>2. Aluminum Polyimide Tape</li> <li>3. Silver Plated Copper Round Braid</li> </ol> |                 |
| Jacket                                 | Translucent Blue FEP   |                 |
| Coax Diameter                          | .195 inch  |                 |
| Minimum Bend Radius                    | 1 inch   |                 |
| Flexure Cycles                         | >50,000  |                 |

**Product Notes**

Minimum bend radius is 1.0 inch.

Operating temperature is -55 to +105 degrees C.