

# P1CA-SAMNM-195TM-24

Cable Assembly, SMA Male to N Male, 195TM Phase Stable Coax, 24 inches. DC to 18 Ghz. Cable is Times Microwave 0.195 inch flex.

## Product Features

P1CA-SAMNM-195TM-24 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, 24 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<sub>Ambient</sub> = 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          | 24.0        |       |
| RoHS Compliance | Yes         |       |

## Drawing

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## 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                                 | 1. Silver Plated Copper Flat Ribbon Braid<br>2. Aluminum Polyimide Tape<br>3. Silver Plated Copper Round Braid |                 |
| 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.