

# RG-402 Patch Cable N Male to SMA Male Low PIM 50cm

SKU: ACC-PT-00305

MPN: CA-R402-N1SA1.050

Barcode: 9337692002526

## Description

The RG-402 Patch Cable, featuring N Male to SMA Male connectors and measuring 50 cm, is engineered by Powertec for superior RF performance. Designed with Powertec's PSF-402 Series coaxial cable, this 0.141" semi-flexible cable offers low loss and supports frequencies up to 34 GHz, making it ideal for efficient component interconnection. Its bright blue 4.2 mm outer jacket is not only visually distinctive but also highly durable, preventing solder joint failures and allowing flexibility with bends directly behind the fillet.

This cable boasts nearly 100% RF shielding thanks to its tin-soaked copper braid, and it is hand-formable, making it suitable for microwave-grade applications with mode-free operation up to 34 GHz. The RG-402 is known for its low Passive Intermodulation (PIM) with a 3rd Order PIM rating of -120 dBc, ensuring optimal signal integrity. It accommodates over 500 mating cycles, ensuring long-term reliability.

Operating...

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## Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

# RF Specification

|                  |          |                 |       |
|------------------|----------|-----------------|-------|
| Start Frequency: | 0 GHz    | Stop Frequency: | 6 GHz |
| PIM, 3rd Order:  | -120 dBc |                 |       |

## VSWR Measurement

| Frequency | VSWR    |
|-----------|---------|
| 3000 MHz  | ≤ 1.2:1 |
| 6000 MHz  | ≤ 1.5:1 |

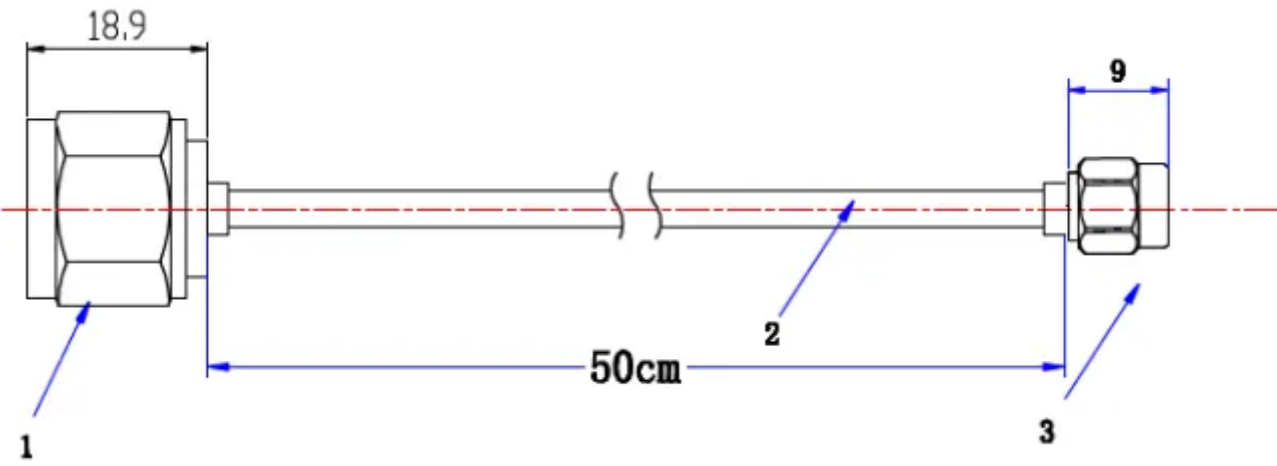
# Physical Specification

|                            |                             |         |       |
|----------------------------|-----------------------------|---------|-------|
| Subtype:                   | Patch Cable                 | Length: | 0.5 m |
| Mating Cycles:             | > 500                       | Weight: | 63 g  |
| Compliance/Certifications: | ISO 9001 Quality Management |         |       |
| RoHS                       |                             |         |       |

## RF Connectors

| RF Interface | Body Shape | Mounting     |
|--------------|------------|--------------|
| N Male       | Straight   | Free Hanging |
| SMA Male     | Straight   | Free Hanging |

Drawing



PSF-402

|                           |       |                          |          |
|---------------------------|-------|--------------------------|----------|
| Min. Frequency:           | 0 GHz | Max. Frequency:          | 34 GHz   |
| Impedance:                | 50    | Shielding Effectiveness: | > 110 dB |
| Min. Bend Radius Static:  | 8 mm  | Colour:                  | Blue     |
| Min. Bend Radius Dynamic: | 40 mm |                          |          |

Cable Layers

| Layer           | Diameter | Materials                 |
|-----------------|----------|---------------------------|
| Inner Conductor | 0.93 mm  | Silver Plated Copper (SC) |
| Dielectric      | 3.00 mm  | PTFE / Teflon             |
| Outer Conductor | 3.52 mm  | Tin Soaked Copper Braid   |
| Outer Jacket    | 4.20 mm  | Polyolefin LSZH           |

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