

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

SKU: ACC-PT-00364
 MPN: CA-R402-N2SA1.050
 Barcode: 9337692002540

Description

The RG-402 Patch Cable, model ACC-PT-00364, is a high-performance RF cable developed by Powertec, suitable for component interconnection in various applications. This 50 cm cable features an N Female to SMA Male connection and is made from Powertec's PSF-402 series, a 0.141" semi-flexible, low-loss coaxial cable with a 4.2 mm bright blue outer jacket. It supports frequencies up to 34 GHz, making it versatile for microwave and RF applications.


The PSF-402 cable is known for its hand-formability, excellent shielding, and very low passive intermodulation (PIM), with a 3rd Order PIM rating of -120 dBc. Its construction includes a tin-soaked copper braid that provides nearly 100% RF shielding, enhancing durability by preventing solder joint failures and allowing tight bends. It can endure over 500 mating cycles.

The cable operates within a frequency range of 0 to 6 GHz, with a VSWR of $\leq 1.2:1$ at 3000 MHz and $\leq 1.5:1$ at 6000 MHz, ensuring...

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RF Specification

| | | | |
|------------------|----------|---|-------|
| Start Frequency: | 0 GHz | Stop Frequency: | 6 GHz |
| PIM, 3rd Order: | -120 dBc |  <p>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 ...</p> | |
| VSWR Measurement | | | |

Frequency

3000 MHz

6000 MHz

VSWR $\leq 1.2:1$ $\leq 1.5:1$

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**

N Female

SMA Male

Body Shape

Straight

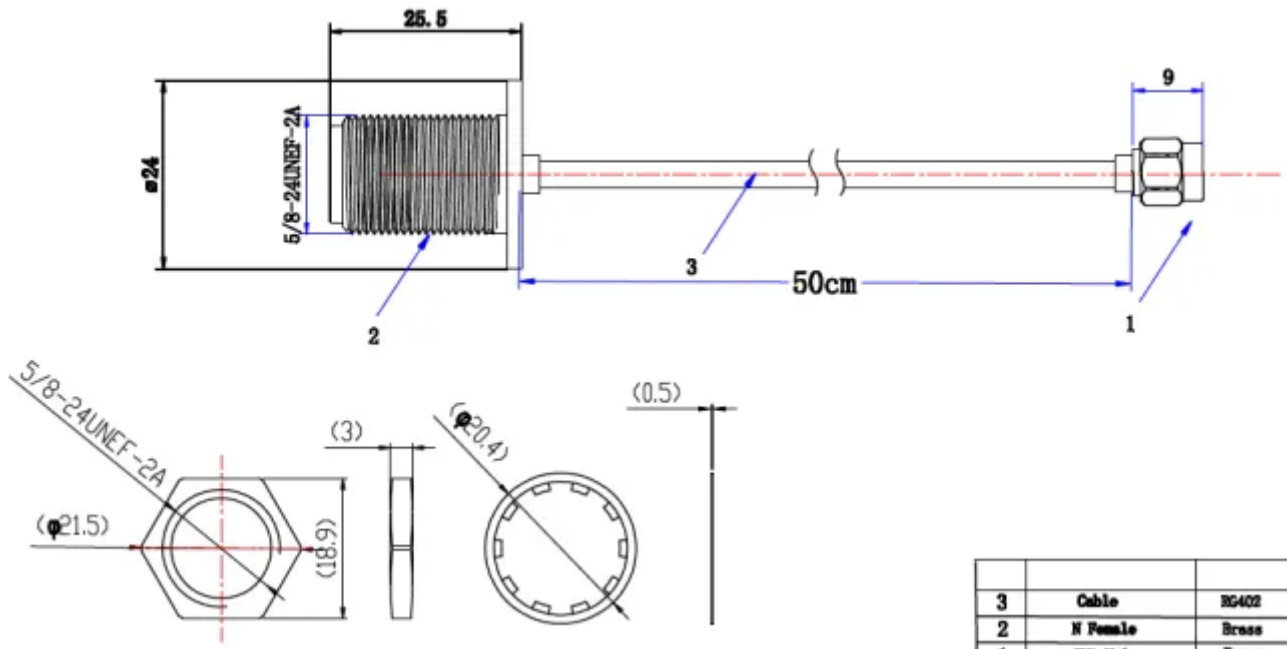
Straight

Mounting

Free Hanging

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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