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

SKU
ACC-PT-00305
MPN
CA-R402-N1SA1.050
Barcode
9337692002526

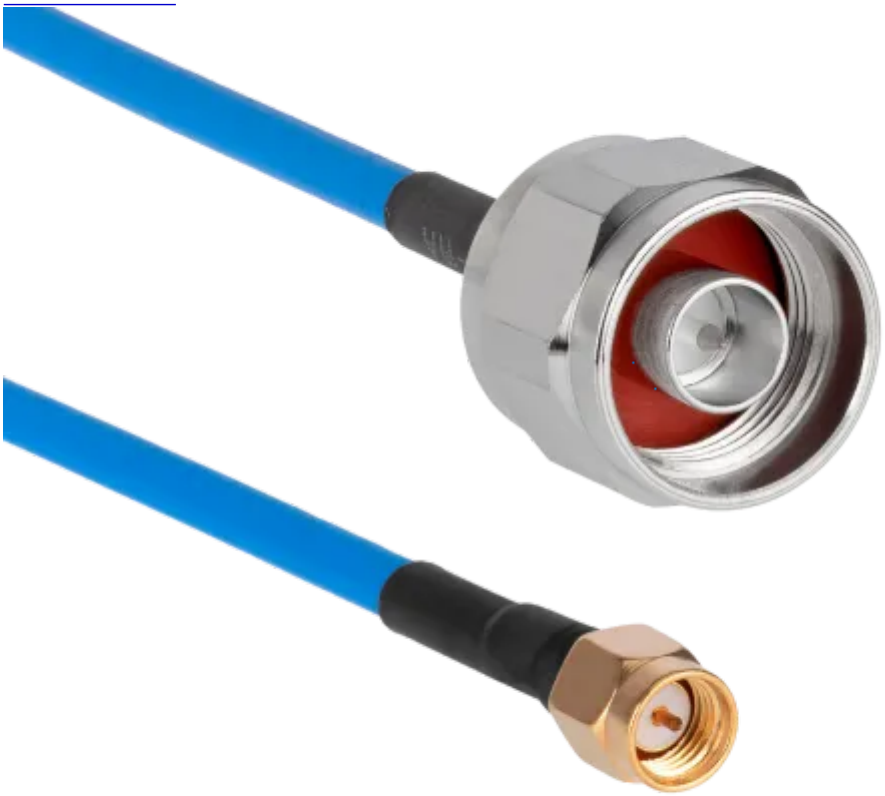
Description

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 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
PIM, 3rd Order
-120 dBc
Stop Frequency
6 GHz
VSWR Measurement

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

Physical Specification

Subtype
Patch Cable
Mating Cycles
> 500
Compliance/Certifications

ISO 9001 Quality Management

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RoHS

Length

0.5 m

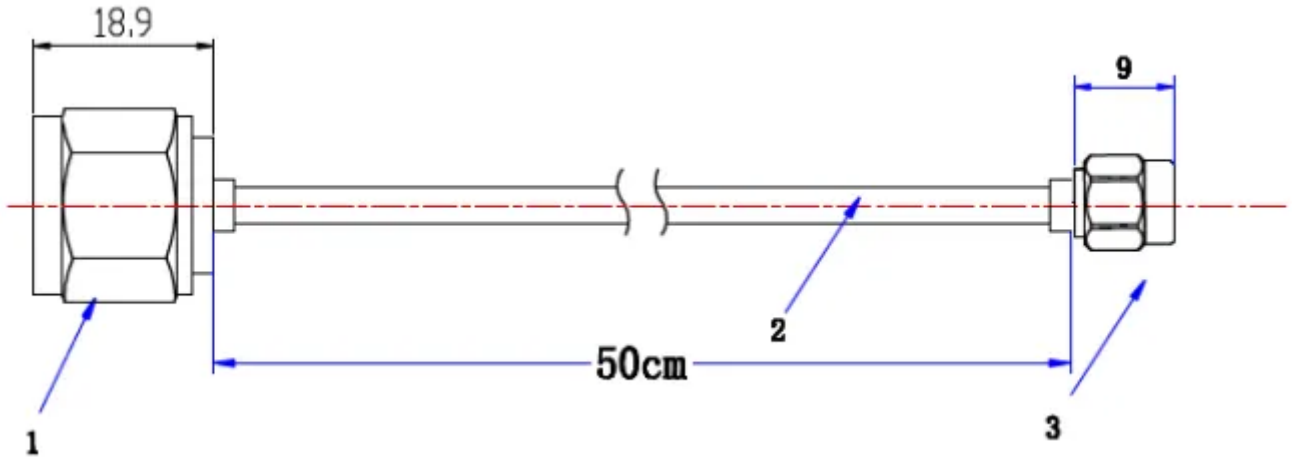
Weight

63 g

RF Connectors

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

Drawing



PSF-402

Min. Frequency

0 GHz

Impedance

50 Ω

Min. Bend Radius Static

8 mm

Min. Bend Radius Dynamic

40 mm

Max. Frequency

34 GHz

Shielding Effectiveness

> 110 dB

Colour

Blue

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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