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Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City Queensland, Australia, 4214 sales@powertec.com.au 1300 769 378

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...





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

Frequency VSWR

 $3000 \text{ MHz} \leq 1.2:1$ $6000 \text{ MHz} \leq 1.5:1$

Physical Specification

Subtype

Patch Cable

Mating Cycles

> 500

Compliance/Certifications

ISO 9001 Quality Management

,

RoHS

Length

0.5 m

Weight

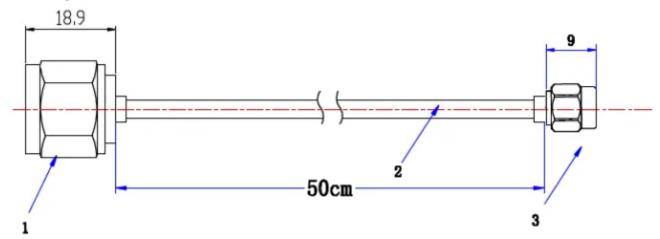
63 g

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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