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

# PSF-402 Patch Cable 4.3-10 Male to 4.3-10 Male Low PIM 50cm

SKU
IBC-PT-00089
MPN
CA-R402-431431.050
Barcode
9337692002816

**Description**

The PSF-402 Patch Cable by Powertec is a 50cm coaxial cable featuring 4.3-10 Male connectors on both ends, designed for RF applications needing low Passive Intermodulation (PIM). The cable, part number CA-R402-431431.050, is made from Powertec’s PSF-402 series, known for its balance of performance and cost-effectiveness. This 0.141" semi-flexible coaxial cable supports frequencies up to 34 GHz and is microwave-grade with mode-free operation, making it ideal for component interconnection.

Its construction includes a tin-soaked copper braid offering near 100% RF shielding, ensuring high performance with minimal signal loss. The cable's 4.2mm bright blue outer jacket is malleable, reducing solder joint failures and permitting immediate bends behind the fillet. It can endure over 500 mating cycles, ensuring longevity and reliability in demanding environments.

The PSF-402 Patch Cable is compliant with ISO 9001 and RoHS standards, reflecting...

Read More



**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
-155 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

,

RoHS

Length

0.5 m

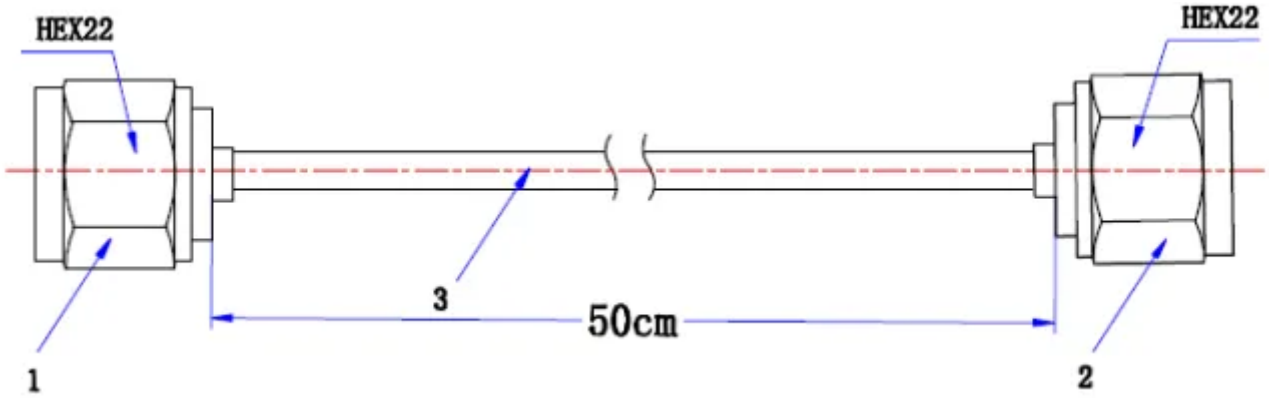
Weight

63 g

RF Connectors

| RF Interface | Body Shape | Mounting |
|---|---|---|
| 4.3-10 Male | Straight | Free Hanging |
| 4.3-10 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) |

| Layer | Diameter | Materials |
| --- | --- | --- |
| Dielectric | 3.00 mm | PTFE / Teflon |
| Outer Conductor | 3.52 mm | Tin Soaked Copper Braid |
| Outer Jacket | 4.20 mm | Polyolefin LSZH |

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

