

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...

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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 | Stop Frequency: | 6 GHz |
| PIM, 3rd Order: | -155 dBc | | |

VSWR Measurement

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

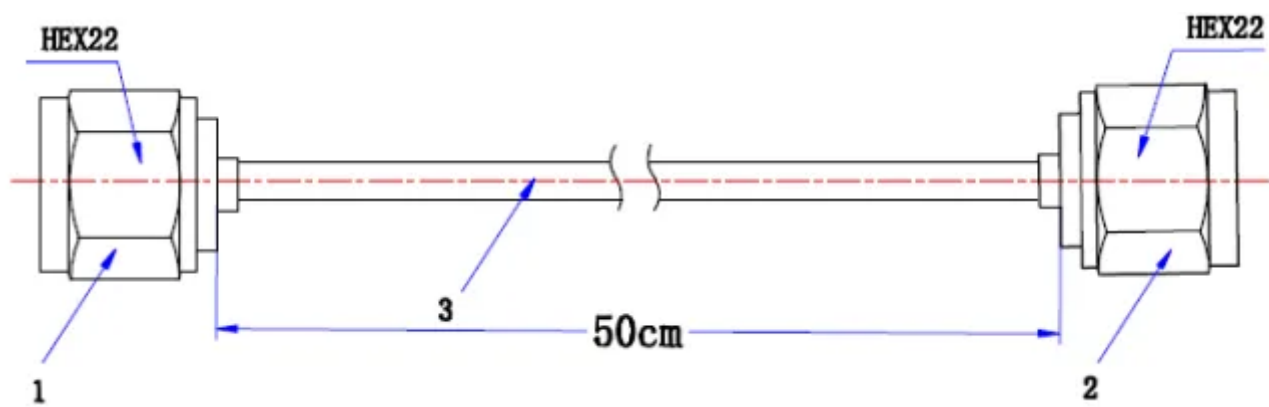
Physical Specification

| | | | |
|----------------------------|-----------------------------|---------|-------|
| 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 |
|--------------|------------|--------------|
| 4.3-10 Male | Straight | Free Hanging |
| 4.3-10 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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