

# RG-402 Patch Cable 4.3-10 Male to 4.3-10 Male Low PIM 30cm

SKU: IBC-PT-00088

MPN: CA-R402-431431.030

## Description

The RG-402 Patch Cable (SKU: IBC-PT-00088) is a high-performance RF cable from Powertec, featuring 4.3-10 Male connectors at both ends. With a length of 30 cm, this cable utilises Powertec's PSF-402, a 0.141" Semi-Flexible, low-loss coaxial cable with a distinctive blue 4.2 mm outer jacket. Capable of supporting frequencies up to 34 GHz, the PSF-402 series offers an excellent balance of performance and cost, ideal for component interconnection.

This cable provides superior shielding with a tin-soaked copper braid and a malleable outer jacket that prevents solder joint failures. Its low PIM rating of -155 dBc and ability to withstand over 500 mating cycles ensure reliable performance. The declared operational frequency range is 0 to 6 GHz, offering mode-free operation up to 34 GHz.

Engineered for durability and precision, it achieves a VSWR of  $\leq 1.2:1$  at 3000 MHz and  $\leq 1.5:1$  at 6000 MHz, making it suitable for demanding RF applications...

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

## VSWR Measurement

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

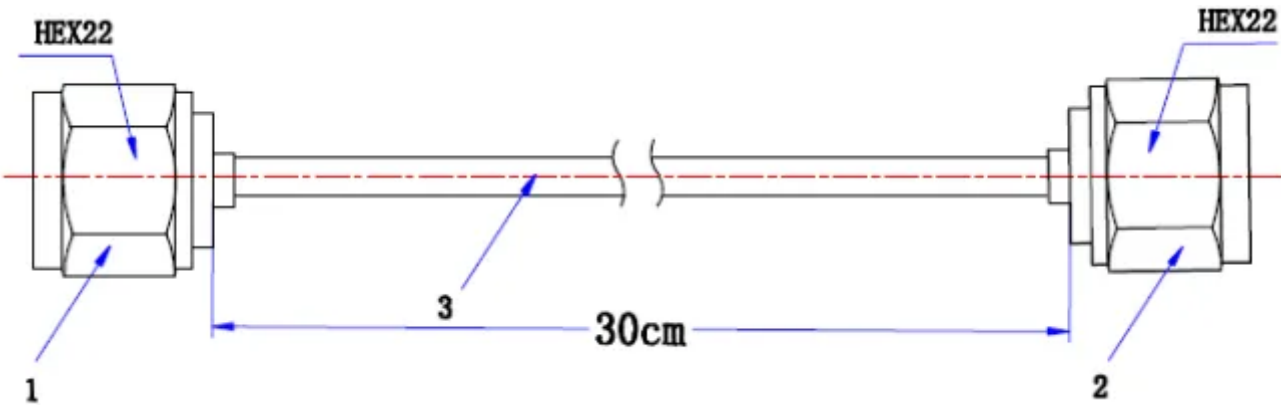
# Physical Specification

|                            |                             |         |       |
|----------------------------|-----------------------------|---------|-------|
| Subtype:                   | Patch Cable                 | Length: | 0.3 m |
| Mating Cycles:             | > 500                       | Weight: | 58 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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