

# 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

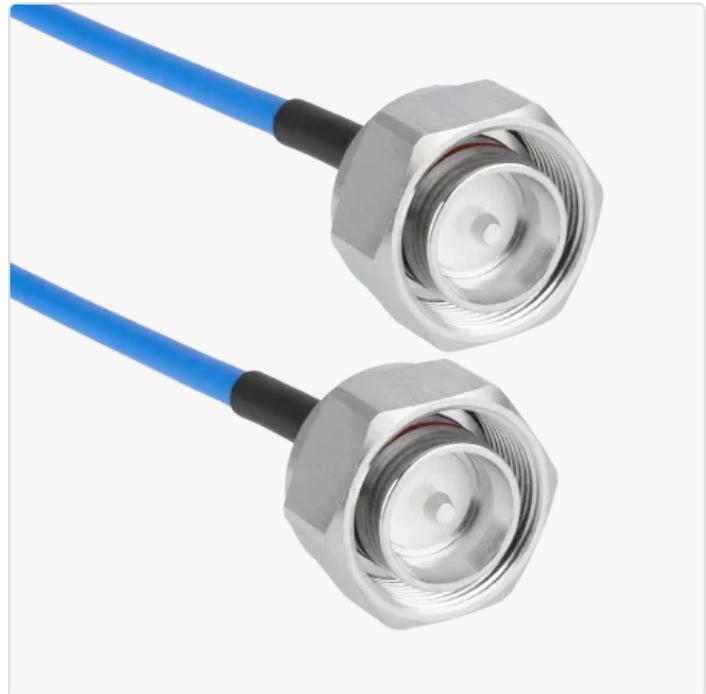
## Description

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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# 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

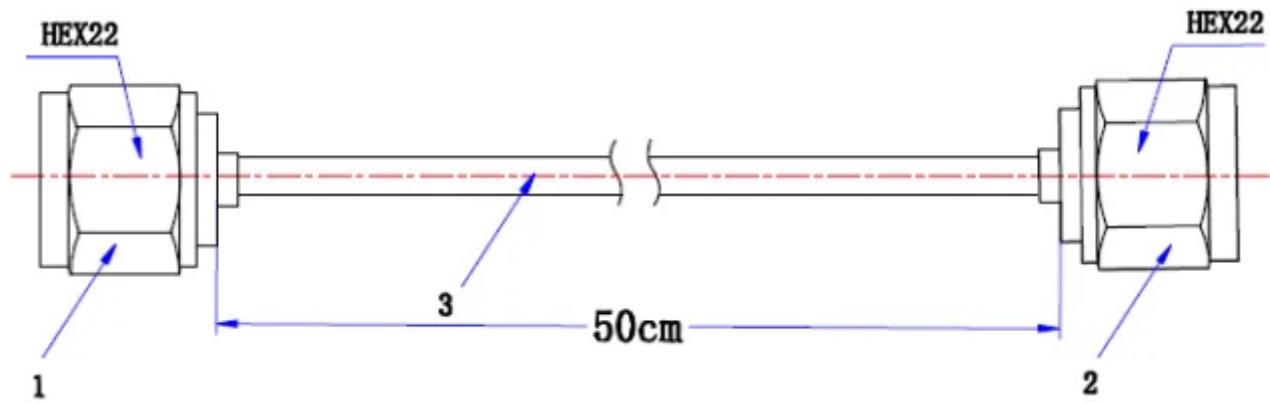
## Physical Specification

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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