

PSF-402 Patch Cable 4.3-10 Female to SMA Male 50cm

SKU: IBC-PT-00070

MPN: CA-R402-432SA1.050

Barcode: 9337692001734

Description

The PSF-402 Patch Cable, part number CA-R402-432SA1.050, is a high-performance RF cable developed by Powertec. This cable features a PSF-402 type, 0.141" semi-flexible design, offering a balance of performance and cost efficiency. With a bright blue 4.2 mm outer jacket, it supports frequencies up to 34 GHz, making it ideal for component interconnections.

The cable's structure includes a tin-soaked copper braid, providing nearly 100% RF shielding, and a malleable outer jacket to prevent solder joint failures, allowing for bends directly behind the fillet. It measures 50 cm in length and weighs 63 grams. The patch cable is designed to endure over 500 mating cycles within an operating frequency range of 0 GHz to 6 GHz.


Connectivity is provided by a 4.3-10 Female connector on one end and an SMA Male connector on the other, both featuring straight body shapes and free-hanging mounting styles. The cable offers a VSWR of $\leq 1.5:1$ at 6000 MHz...

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RF Specification

| | | | |
|------------------|----------|-----------------|--------------|
| Start Frequency: | 0 GHz | Stop Frequency: | 6 GHz |
| VSWR Measurement | 6000 MHz | VSWR | $\leq 1.5:1$ |

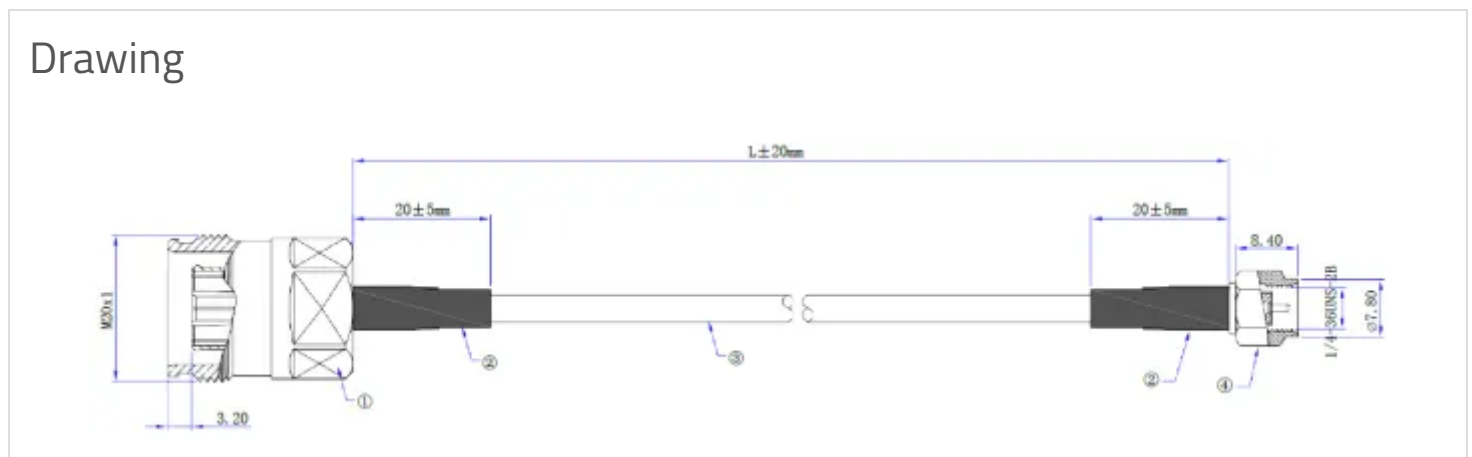

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Physical Specification

| | | | |
|----------------------------|-----------------------------|---------|-------|
| 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 Female | Straight | Free Hanging |
| SMA Male | Straight | Free Hanging |



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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