

L-100 Patch Cable, RP-SMA Male to SMA Female 15cm

SKU: ACC-PT-00330
 MPN: CA-L10-RSA15A2.015
 Barcode: 9337692003615

Description

The L-100 Patch Cable by Powertec (SKU: ACC-PT-00330) is a high-performance coaxial cable designed for RF applications. This 15cm cable features an RP-SMA Male to SMA Female connection, ideal for high-frequency microwave applications up to 63 GHz, although it is primarily used up to 6 GHz. The L-100 series serves as an exceptional replacement for RG-174 and RG-316 cables, offering superior RF shielding exceeding 90 dB, thanks to its double shielded outer conductor.

With a diameter of 2.79 mm, the L-100 Patch Cable is perfect for mobile technology advancements requiring reliable high-frequency interconnections. It has a robust design, capable of enduring over 500 mating cycles, and operates effectively within a frequency range of 0 GHz to 3 GHz. The cable demonstrates excellent performance with a VSWR of $\leq 1.4:1$ and an insertion loss of 0.2 dB at 3000 MHz.

This cable assembly complies with ISO 9001 Quality Management and RoHS...

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RF Specification

| | |
|--|---|
| <p>Start Frequency: </p> <p>0 GHz</p> | <p>Stop Frequency: 3 GHz</p> |
| <p><small>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</small></p> | |
| <p>VSWR Measurement</p> <p>Frequency</p> <p>3000 MHz</p> | <p>VSWR</p> <p>$\leq 1.4:1$</p> |
| | <p>Insertion Loss</p> <p>0.2 dB</p> |

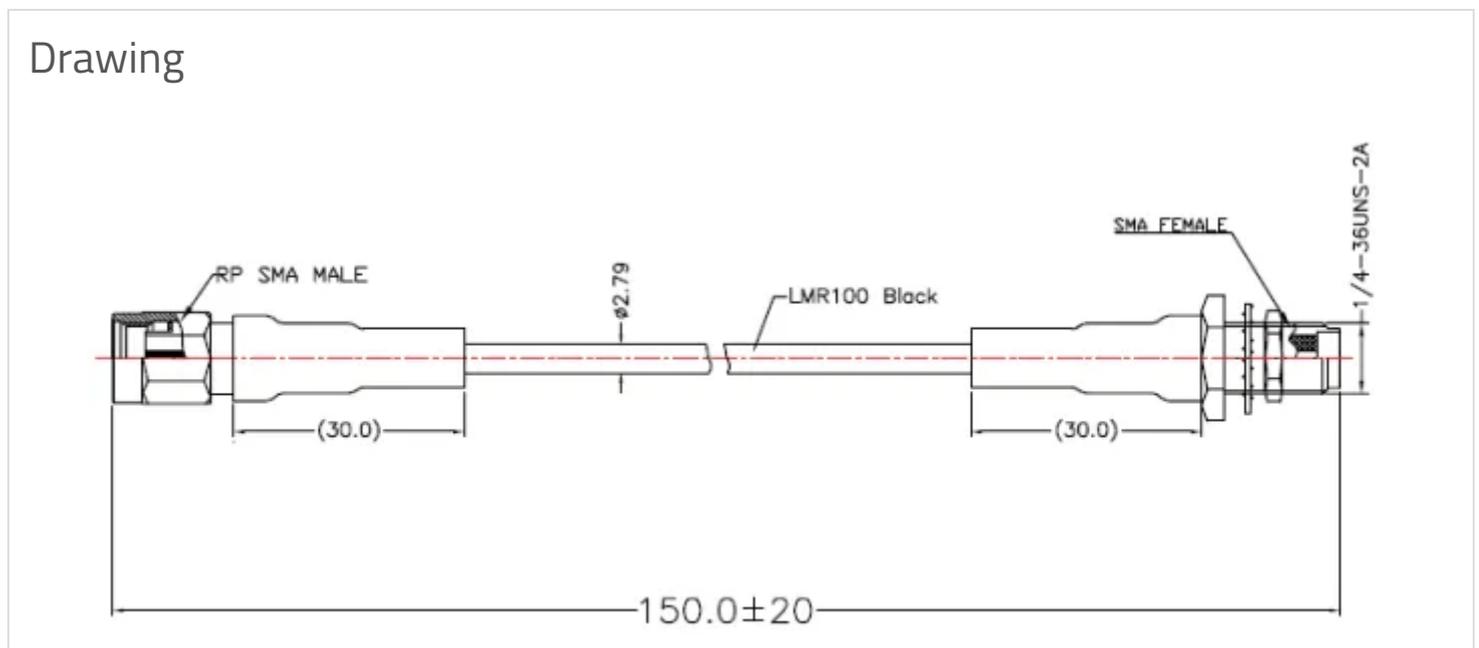
Physical Specification

| | | | |
|----------------------------|-----------------------------|---------|--------|
| Subtype: | Patch Cable | Length: | 0.15 m |
| Mating Cycles: | > 500 | Weight: | 53 g |
| Compliance/Certifications: | ISO 9001 Quality Management | | |
| RoHS | | | |

RF Connectors

| RF Interface | Body Shape | Mounting |
|--------------|------------|--------------|
| RP-SMA Male | Straight | Free Hanging |
| SMA Female | Straight | Free Hanging |

Drawing



L-100

| | | | |
|---------------------------|-----------|--------------------------|---------|
| Min. Frequency: | 0 GHz | Max. Frequency: | 63 GHz |
| Impedance: | 50 | Shielding Effectiveness: | > 90 dB |
| Min. Bend Radius Static: | 6.4 mm | Colour: | Black |
| Min. Bend Radius Dynamic: | 25.4 mm | | |
| Attenuation @ 1 GHz: | 0.78 dB/m | | |

Cable Layers

| Layer | Diameter | Materials |
|-----------------|----------|--------------------------|
| Inner Conductor | 0.46 mm | Solid Copper |
| Dielectric | 1.52 mm | Polyethylene (PE) |
| Outer Conductor | 1.65 mm | Aluminium Foil |
| Outer Conductor | 2.11 mm | Tinned Copper Braid (TC) |
| Outer Jacket | 2.79 mm | Polyethylene (PE) |

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