

# 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...

[Read More](#)



## 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><b>VSWR Measurement</b></p> <p><b>Frequency</b></p> <p>3000 MHz</p>	<p><b>VSWR</b></p> <p><math>\leq 1.4:1</math></p>
	<p><b>Insertion Loss</b></p> <p>0.2 dB</p>

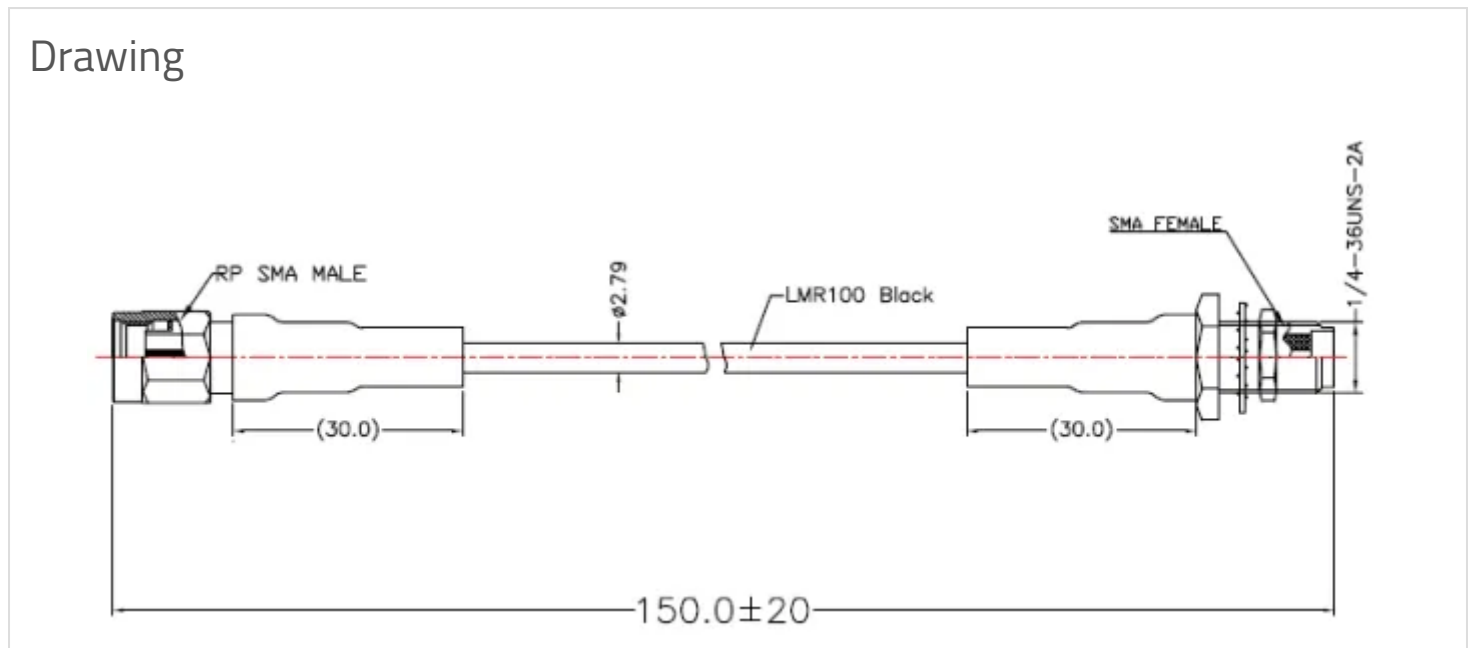
# Physical Specification

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)

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

