

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

SKU: ACC-PT-00330

MPN: CA-L10-RSA1SA2.015

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

Start Frequency: 0 GHz Stop Frequency: 3 GHz

## VSWR Measurement

Frequency	VSWR	Insertion Loss
3000 MHz	≤ 1.4:1	0.2 dB

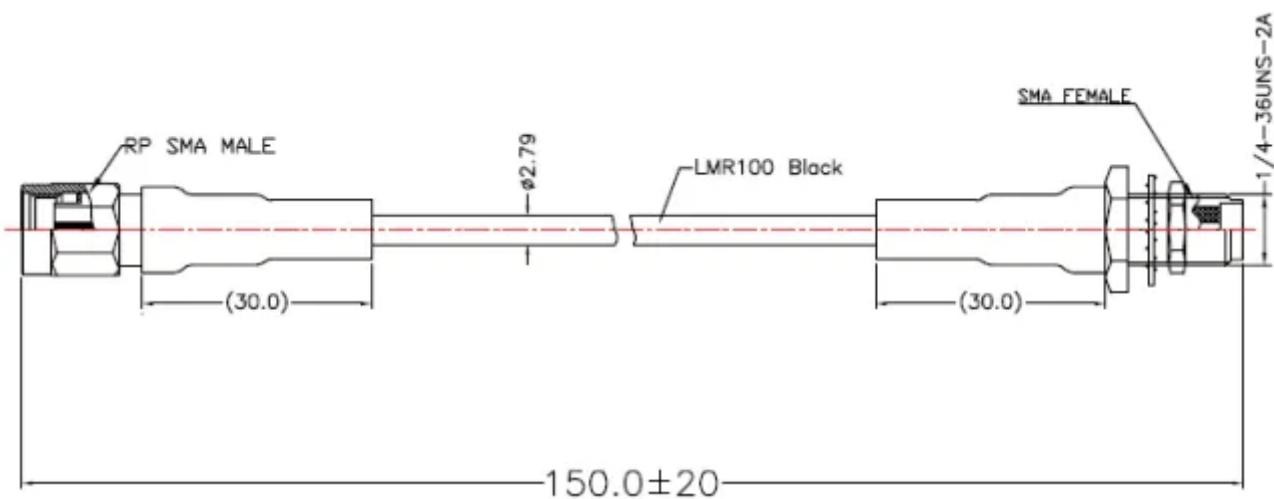
## Physical Specification

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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