

INDUSTRIAL PRODUCT DATASHEET

RF Cable | RP-SMA Male to N-Type SMA Female | 300mm

300mm RF cable with RP-SMA Male to N-Type SMA Female connectors, optimized for Meshtastic and SenseCAP devices with robust outdoor durability and low insertion loss.

SKU

100007236

UPDATED

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PRICE

\$4.99(Excl. VAT)



Overview



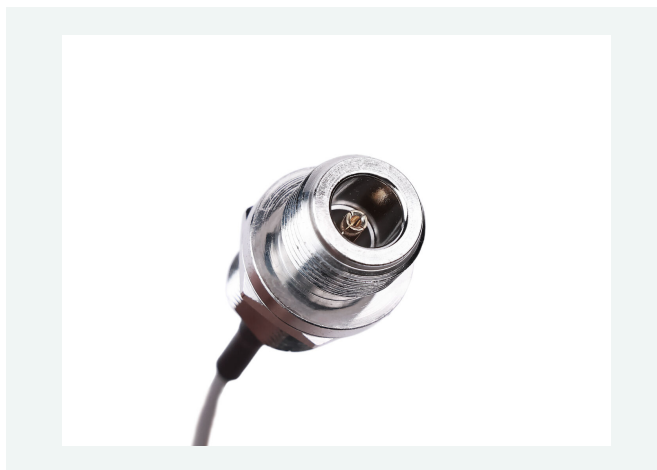
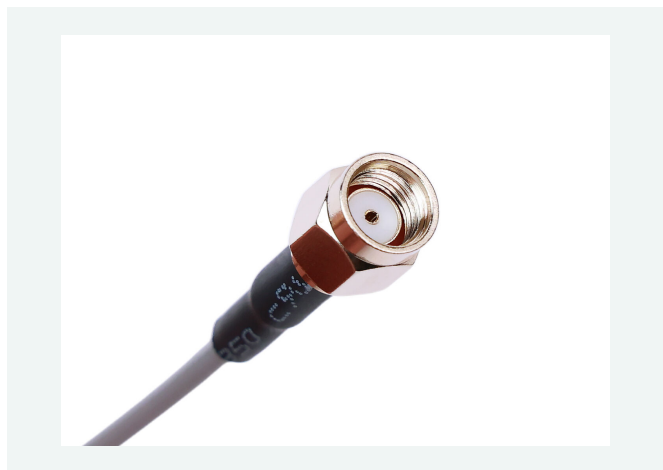
This 300mm RF cable features RP-SMA Male to N-Type SMA Female connectors, ideally matched for Meshtastic Solar Powered Node, SenseCAP M1, and SenseCAP M2 devices with RF Explorer LoRa-Fiberglass-Antenna. Its robust FEP jacket and bulkhead connector ensure durable outdoor installation, while silver-plated copper conductors and PTFE dielectric provide very low insertion loss.

Key Features

- Perfect connector match with **Meshtastic Solar Powered Node**, **SenseCAP M1**, **SenseCAP M2** to **RF Explorer LoRa-Fiberglass-Antenna**
- Robust FEP jacket construction for outdoor usage, featuring a bulkhead connector for easy and secure enclosure installation
- Very low insertion loss ensured by premium silver-plated copper conductors and PTFE dielectric

The main difference between SMA and RP-SMA

Product Gallery

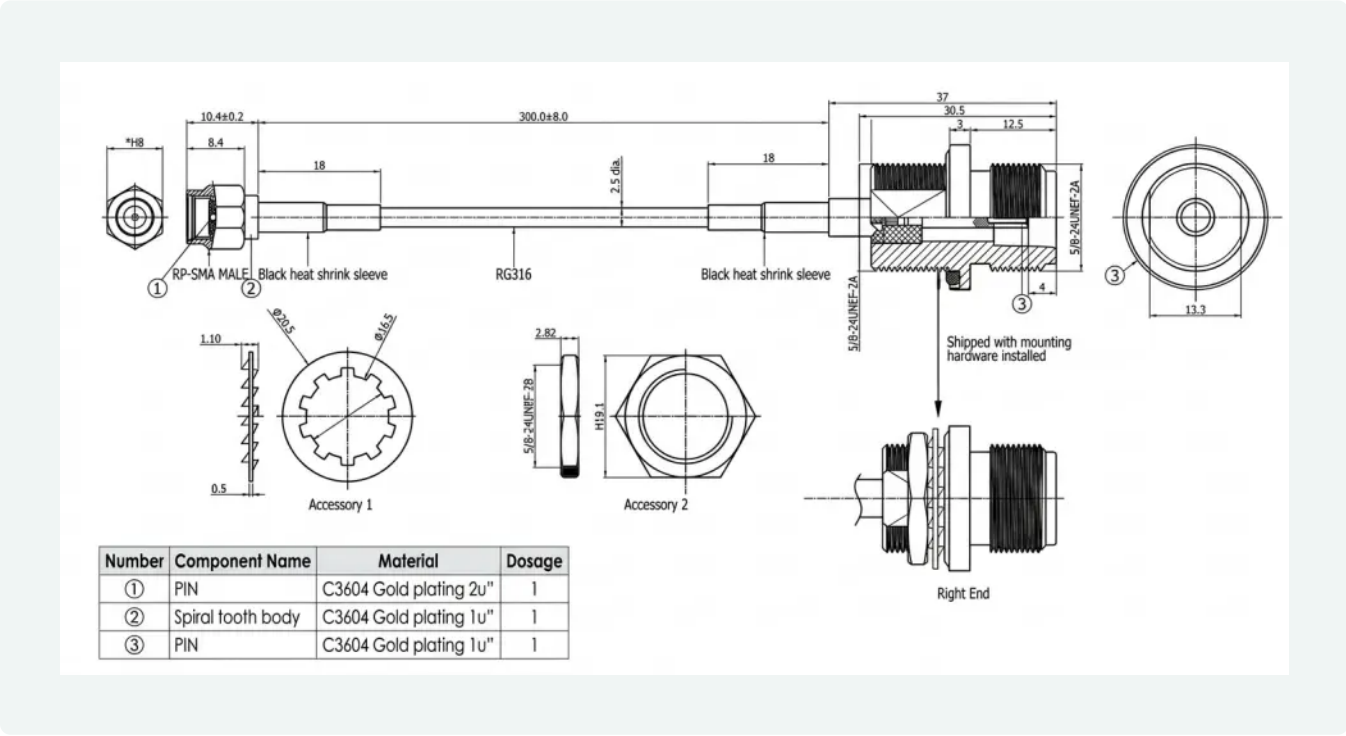


Specification

Item / Parameter	Specification / Details
Cable Length	300.0 ± 8.0 mm
Inner Conductor	Silver plated copper, $\Phi 0.52 \pm 0.01$ mm
Dielectric	PTFE, $\Phi 1.53 \pm 0.05$ mm
Outer Conductor	Silver-Plated Copper Wire Braiding, $\Phi 1.95 \pm 0.05$ mm
Jacket	FEP (Grey), $\Phi 2.50 \pm 0.05$ mm
Capacitance	106 pF/m
Connectors	RP-SMA male to N-Type SMA Female
Impedance	$50 \pm 2 \Omega$
Max. Operating Frequency	0 ~ 6 GHz
Voltage Withstand (AC)	0.5 kVrms (1 min)
Shielding Effect	> 60 dB (0-1G)
Min. Bending Radius Static	15 mm
Operating Temperature (Cable)	-65°C to +150°C
Attenuation @ 0.5 GHz	0.2676 ± 0.10 dB/m

Attenuation @ 0.6 GHz	0.3163 ± 0.10 dB/m
Attenuation @ 0.8 GHz	0.3310 ± 0.10 dB/m
Attenuation @ 1 GHz	0.4043 ± 0.10 dB/m
Attenuation @ 2 GHz	0.6956 ± 0.15 dB/m
Attenuation @ 3 GHz	0.6835 ± 0.15 dB/m
Attenuation @ 4 GHz	0.9624 ± 0.18 dB/m
Attenuation @ 5 GHz	0.9989 ± 0.20 dB/m
Attenuation @ 6 GHz	1.0138 ± 0.20 dB/m
Connector Frequency Range	DC-6 GHz
Connector Nominal Impedance	50 Ω
Connector Working Voltage	335V Max.
Connector Proof Voltage	750V
Connector VSWR	1.4 Max.
Connector Torsional	15 IN-LBS Min.
Connector Pluggable	500 cycles
Connector Operating Temp.	-55°C to +125°C
Salt Spray	48 Hours
Compliance	RoHS & REACH Compliant

Hardware Overview



Part List

RP-SMA Male to N-Type SMA Female cable	x1
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Compliance & Logistics

HSCODE	8544200000
USHSCODE	8544421000
UPC	
EUHSCODE	8544119000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/RF-Cable-RP-SMA-Male-to-N-Type-SMA-Female-300mm.html>

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