



RF Cable Datasheet

Product OC: YEGX000Q1AM

Version: 1.0

Date: 2025-03-28

Status: Released

Product Name: 1000–2000 MHz SMA Female to TNC Male Cable

Key Features:

Frequency Band: 1000–2000 MHz

Cable Length: 3000 mm

Connector Type: SMA Male to TNC Male

RoHS Compliant

Overview

To meet the requirements of devices for RF connection among antennas, modules, and motherboards, as well as long-distance wiring, Quectel provides customers with a wide range of RF cable products. These cables use high-quality materials and connectors to reduce the loss to the greatest extent, ensuring overall RF performance. Quectel also provides customized services according to customers' particular requirements for cable material, cable length, and connector type.

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1 Specification

1.1. Electrical

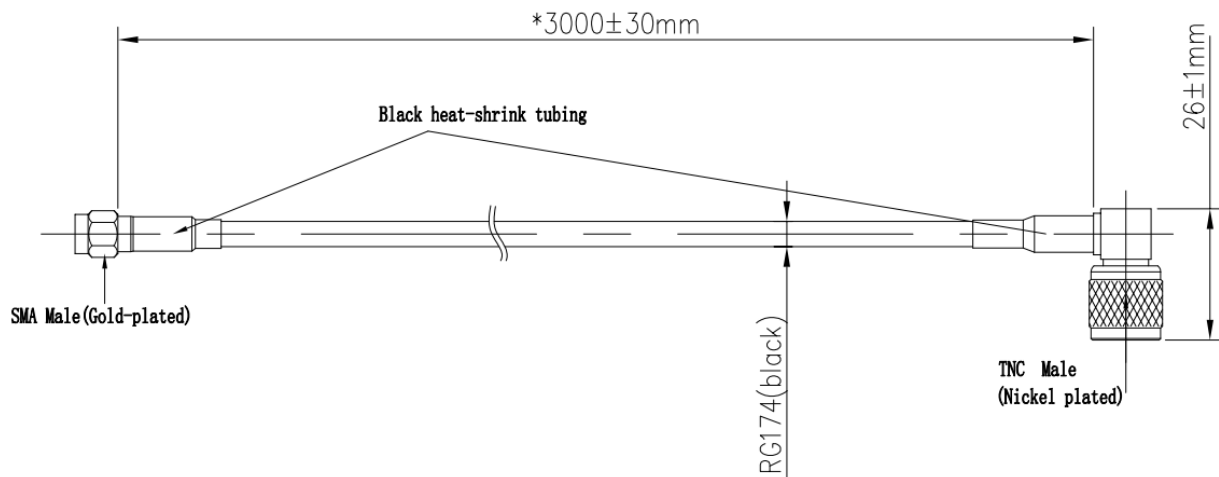
Electrical	
Frequency Range	1000–2000 MHz
Impedance	50 Ω
VSWR	≤ 2
Return Loss	≤ -10 dB
Max Cable Loss	-4.8 dB

1.2. Mechanical & Environmental

Mechanical		
Cable Type & Color & Length		RG174 & Black & 3000 mm
Item	Material	Diameter (mm)
Inner Conductor	Bare copper	0.495
Insulator	PE	1.52
Outer Conductor	Copper-clad aluminum	2.00
Jacket	PVC	2.8
Connector Type		SMA Male to TNC Male
Weight		Typ. 53.8 g
Environmental		
Operation Temperature		-40 °C to +85 °C

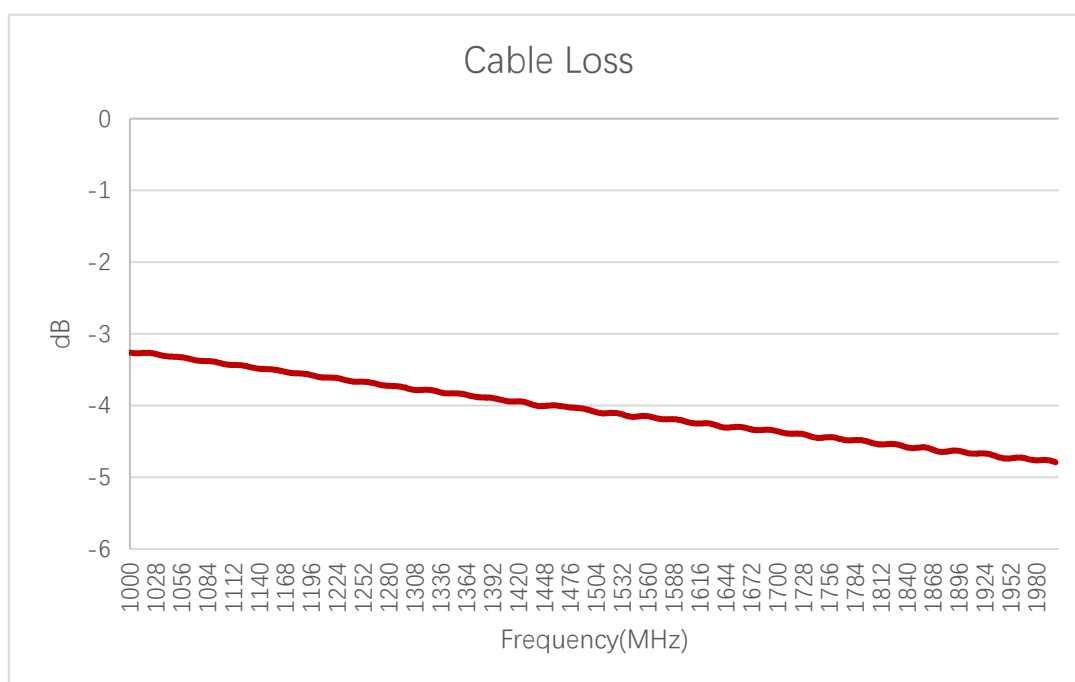
Storage Temperature	-40 °C to +85 °C
RoHS Compliant	Yes

2 Drawing



3 Detailed Performance

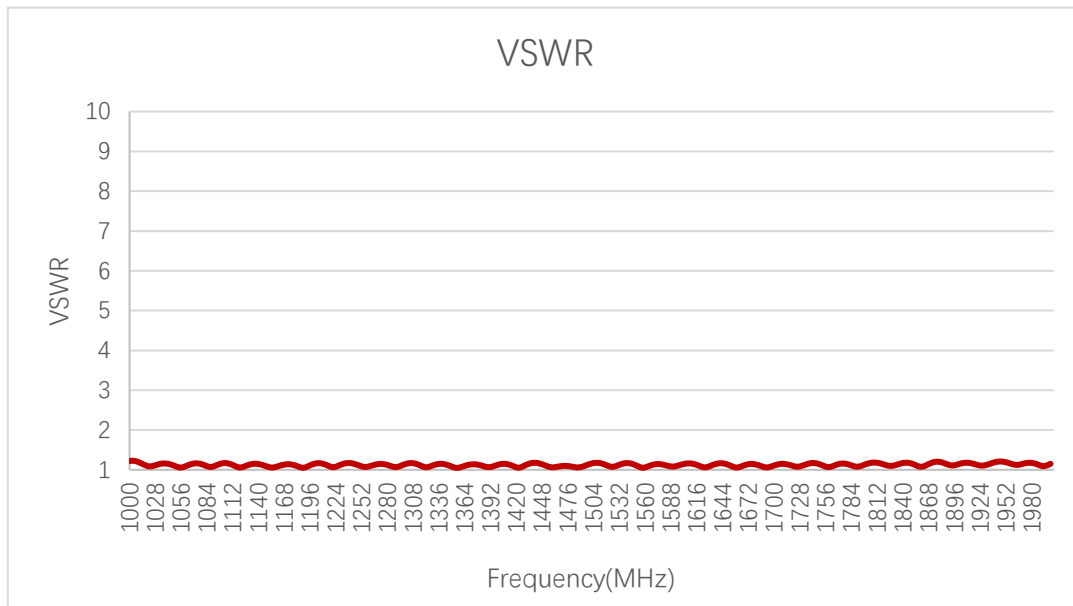
3.1. Cable Loss



Cable Loss (dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1278	1525	1561	1575	1602
Cable Loss (dB)	-3.5	-3.6	-3.5	-3.6	-3,7	-3.7	-4.1	-4.1	-4.2	-4.2

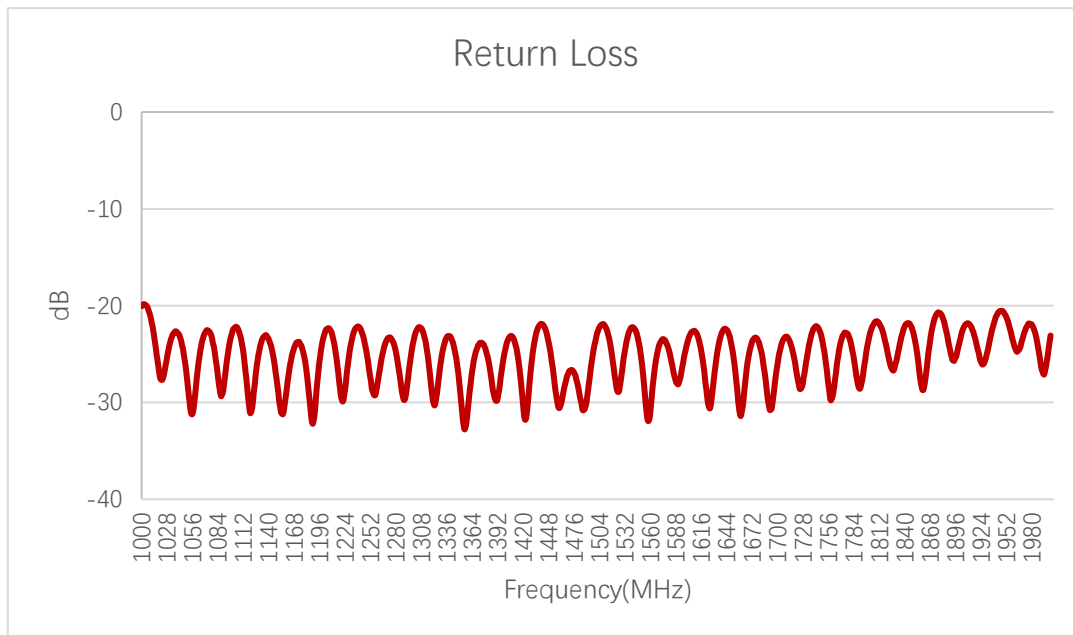
3.2. VSWR



VSWR

Frequency (MHz)	1176	1207	1227	1248	1268	1278	1525	1561	1575	1602
VSWR	1.1	1.1	1.1	1.1	1.1	1.1	1.07	1.06	1.14	1.14

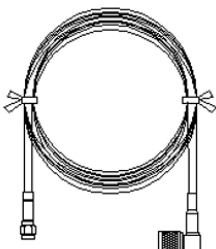
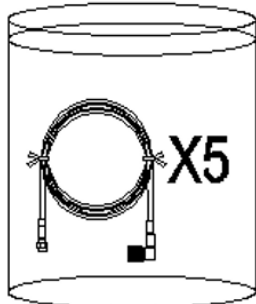
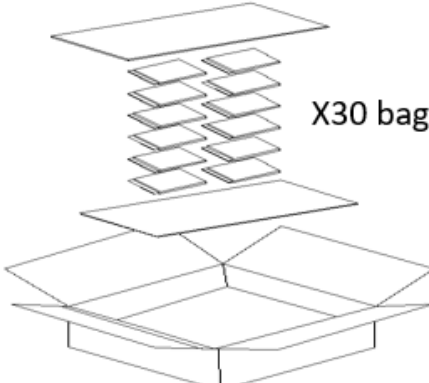
3.3. Return Loss

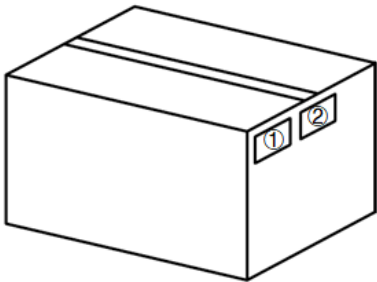
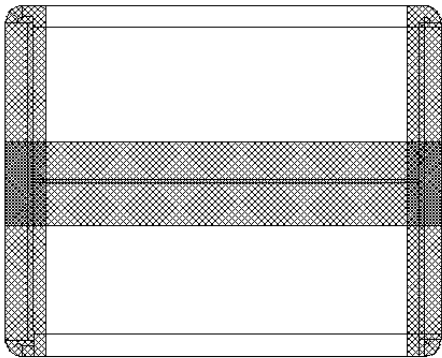


Return Loss (dB)

Frequency (MHz)	1176	1207	1227	1248	1268	1278	1525	1561	1575	1602
Return Loss (dB)	-24.3	-22.5	-25.7	-25.2	-23.8	-24.2	-28.8	-29.4	-23.5	-23.2

4 Packaging

Step	Packaging Picture / 2D Picture	Description
1	 <p>1PC/Tie</p>	(1 PC antenna / Tie)
2		5 pcs antenna products in a PE bag. (5 PCS Antennas / PE Bag)
3		<p>(30 PE Bags / Carton Box) (150 PCS Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box.</p> <p><u>Carton Size:</u> <u>L × W × H = 390 × 275 × 300 mm</u></p>

4		<p>Position for Attaching Labels</p> <ul style="list-style-type: none"> ① Carton Label ② Quality Label
5		<p>Sealing Cartons H-shaped sealing cartons</p>
Note	<p>The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.</p>	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Or our local offices. For more information, please visit:

<http://www.quectel.com/support/sales.htm>.

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Or email us at: support@quectel.com.

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Revision History

Version	Date	Author	Note
-	2025-03-28	Junsen LI/ Lucky FENG/ Riva REN/ Rainey LIAO	Creation of the document
1.0	2025-03-28	Junsen LI/ Lucky FENG/ Riva REN/ Rainey LIAO	First official release



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