

**TNC Male to RA TNC Male Cable Tinned Aluminum
RG405 Type .086 Coax in 100 CM**

The TNC male to RA TNC male 100 cm cable using Tinned Aluminum RG405 type .086 coax, part number FMCA2978-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR086ALTN-STR coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA2978-100CM TNC male to TNC male cable assembly operates to 6 GHz. The right angle TNC interface on the FM-SR086ALTN-STR cable allows for easier connections in tight spaces.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.5:1 | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 6 | GHz |
| Insertion Loss (Typ.) | 0.49 | 0.68 | 1.06 | 1.38 | 2.12 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications
Cable Assembly

| | |
|---------|---------------------|
| Length* | 39.37 in [100 cm] |
| Weight | 0.109 lbs [49.44 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | FM-SR086ALTN-STR |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor Material and Plating | Tinned Aluminum |
| One Time Minimum Bend Radius | 0.05 in [1.27 mm] |


Configuration:

- TNC Male
- TNC Male Right Angle
- FM-SR086ALTN-STR

Features:

- Max Frequency 6 GHz

Applications:

- General Purpose
- Laboratory Use

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|-------------------------|-------------------------|
| Type | TNC Male | TNC Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Gold over Nickel | Brass, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Material & Plating | Brass, Nickel | Brass, Nickel |

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2978 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMCA2978-12 = 12 inches long cable
FMCA2978-100cm = 100 cm long cable

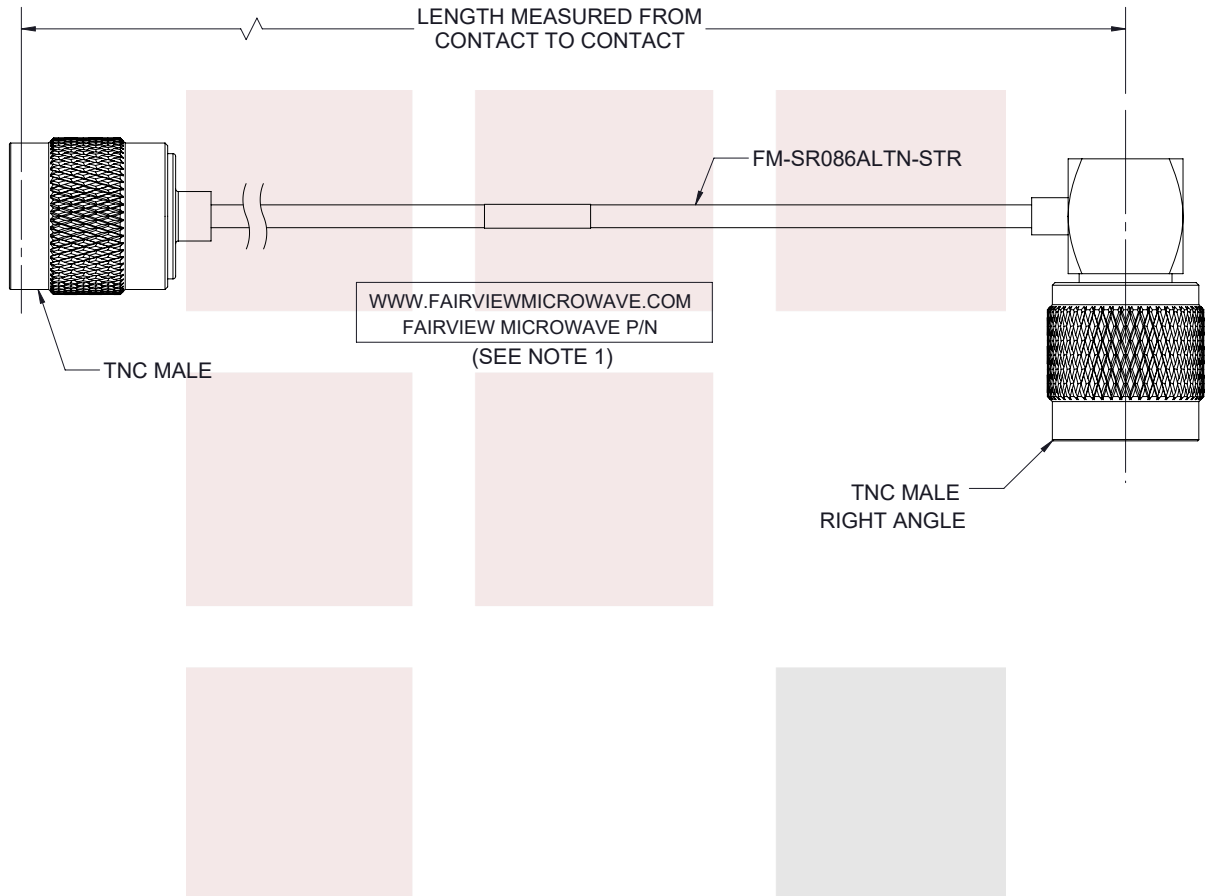
TNC Male to RA TNC Male Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [TNC Male to RA TNC Male Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM FMCA2978-100CM](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-to-ra-tnc-male-cable-tinned-aluminum-rg405-type-.086-coax-in-100-cm-fmca2978-100cm-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 08/03/2022 | AGANWANI |



NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE FRONT OF THE CONNECTOR.

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|--|--|----------------------------------|--|---------------------|--|--|
| <p>Fairview Microwave an INFINIT[®] brand</p> | <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> | | <p>THIRD-ANGLE PROJECTION</p> | | | |
| | <p>TOLERANCES:</p> <p>.X = ±.2 [.51] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p> | | <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</p> | | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> | |
| <p>TITLE</p> <p>TNC Male to RA TNC Male Cable Tinned Aluminum RG405 Type .086 Coax in 100 CM</p> | | | <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | <p>SCALE</p> <p>N/A</p> | |
| <p>SIZE</p> <p>A</p> | <p>CAGE CODE</p> <p>3FKR5</p> | <p>DRAWN BY</p> <p>PSRINIVAS</p> | <p>ITEM NO.</p> <p>FMCA2978</p> | <p>REV</p> <p>A</p> | | |

T-Rev.D