

TNC Female to TNC Female Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch

The TNC female to TNC female cable using Tinned Aluminum RG402 type .141 coax, part number FMCA2842-48, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR141ALTN-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 FMCA2842-48 TNC female to TNC female cable assembly operates to 6 GHz.

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 | |
| Velocity of Propagation | | 69.5 | | % |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|----|----|-------|
| Frequency | 1 | 2.5 | 6 | | | GHz |
| Insertion Loss (Typ.) | 0.72 | 0.94 | 1.46 | | | dB/ft |
| | 2.36 | 3.08 | 4.79 | | | dB/m |

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
 Weight 0.158 lbs [71.67 g]

Cable

Cable Type FM-SR141ALTN-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
 Repeated Minimum Bend Radius 0.15 in [3.81 mm]



Configuration:

- TNC Female
- TNC Female
- FM-SR141ALTN-STR

Features:

- Max Frequency 6 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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Connectors

| Description | Connector 1 | Connector 2 |
|----------------------------|------------------------------------|------------------------------------|
| Type | TNC Female | TNC Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Dielectric Type | PTFE | PTFE |
| Body 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:

FMCA2842 - xx uu

cm = Centimeters
<blank> = Inches
Length

Example: FMCA2842-12 = 12 inches long cable
FMCA2842-100cm = 100 cm long cable

TNC Female to TNC Female Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch 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 Female to TNC Female Cable Tinned Aluminum RG402 Type .141 Coax in 48 Inch FMCA2842-48](#)

URL: <https://www.fairviewmicrowave.com/tnc-female-to-tnc-female-cable-tinned-aluminum-rg402-type-.141-coax-fm-ca2842-48-p.aspx>

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