

SMA Male Right Angle to SMA Male Right Angle Low PIM Cable 100 CM Length Using TFT-402 Coax Using Times Microwave Components

The RA SMA male to RA SMA male 100 cm cable using TFT-402 coax, part number FMCA2328-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible TFT-402 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2328-100CM SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interfaces on the TFT-402 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than -80 dB.

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 | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | -80 | | | dB |
| Passive Intermodulation | | | -160 | dBc |
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 8.5 [27.89] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 5.6 [18.37] | | Ω /1000ft [Ω /Km] |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.47 | 0.53 | 0.63 | 0.86 | 1.16 | dB |

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 0.15 dB per connector.

Mechanical Specifications

Cable Assembly

Cable

| | |
|----------------------|---------|
| Cable Type | TFT-402 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- TFT-402

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

| | |
|--------------------------------------|----------------------------|
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.16 in [4.06 mm] |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|-----------------------------|-----------------------------|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Silver | Brass, Silver |
| Contact Plating Spec. | 5 µm | 5 µm |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Body Plating Spec. | 3 µm | 3 µm |
| Coupling Nut Material & Plating | Brass, Copper Clad Aluminum | Brass, Copper Clad Aluminum |
| Coupling Nut Plating Spec. | 3 µm | 3 µm |

Environmental Specifications

Temperature

Operating Range -55 to +150 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2328 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2328-12 = 12 inches long cable
FMCA2328-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Low PIM Cable 100 CM Length Using TFT-402 Coax Using Times Microwave Components 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.

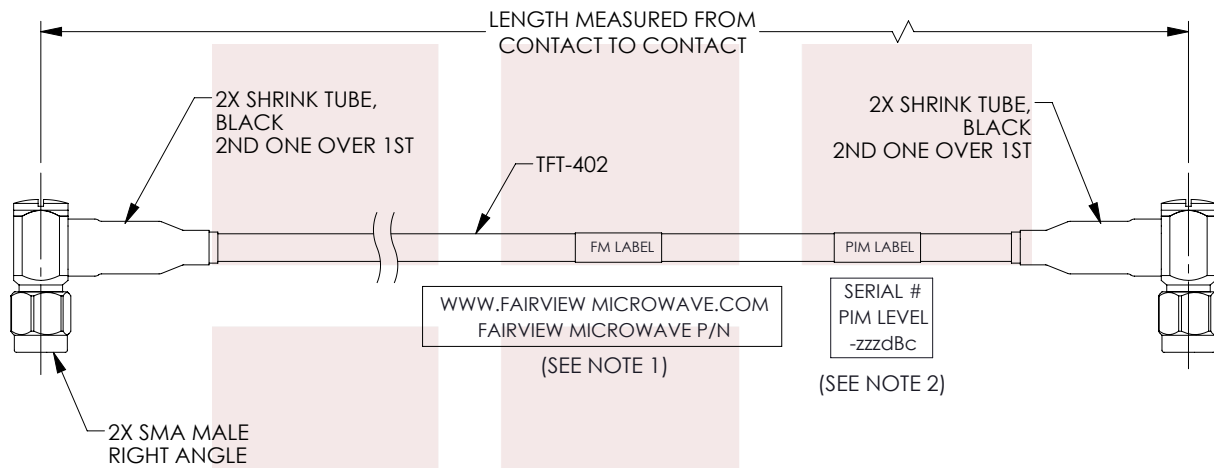
Click the following link to obtain additional part information: [SMA Male Right Angle to SMA Male Right Angle Low PIM Cable 100 CM Length Using TFT-402 Coax Using Times Microwave Components FMCA2328-100CM](https://www.fairviewmicrowave.com/low-pim-ra-sma-male-ra-sma-male-cable-tft-402-coax-fmca2328-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-sma-male-ra-sma-male-cable-tft-402-coax-fmca2328-100cm-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 |
| B | PCR PE3C7959 20220517 AND PE3C7948 20210610 | 5/17/22 | SRAUTUS |



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM THE FRONT OF THE CONNECTOR.
2. PIM LABEL 6" FROM CABLE END 1 PLACE.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

SMA Male Right Angle to SMA Male Right Angle Low PIM Cable 100 CM Length Using TFT-402 Coax Using Times Microwave Components

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

| | | |
|--------------------|------------------|---|
| .X = ±.2 [5.08] | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0 |
| .XX = ±.02 [.51] | ANGLES ± 1° | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 |
| .XXX = ±.005 [.13] | | 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 |
| | | 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 |
| | | 300 [7620] < L = +5%L / -0 |

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| | | | | |
|--------|-----------------|---------------------|-------------------|-------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY DFRISIELLO | ITEM NO. FMCA2328 | REV B |
|--------|-----------------|---------------------|-------------------|-------|

T-Rev.D