



Low PIM 1.0/2.3 Plug to 1.0/2.3 Plug Cable TFT-402 Coax Using Times Microwave Components

The 1.0/2.3 plug to 1.0/2.3 plug cable using TFT-402 coax, part number FMCA2297, from Fairview Microwave is in-stock and ships same day. This Fairview 1.0/2.3 to 1.0/2.3 cable assembly has a plug to plug 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 -150 dBc. The FMCA2297 1.0/2.3 plug to 1.0/2.3 plug cable assembly operates to 5.8 GHz. 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 | Т | ур | Max | ι | Jnits | |
|-------------------------------|-----|-------------|-------------|-----------------|---|--------------|--|
| Frequency Range | DC | | | 5.8 | | GHz | |
| VSWR | | | | 1.4:1 | | | |
| Velocity of Propagation | | | 76 | | | % | |
| RF Shielding | -80 | | | | | dB | |
| Passive Intermodulation | | | | -150 | | 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.) | 0.05 | 0.07 | 0.1 | 0.17 | 0.26 | dB/ft |
| | 0.16 | 0.23 | 0.33 | 0.56 | 0.85 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.33 in [8.38 mm]

Cable

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



Configuration:

- 1.0/2.3 Plug
- 1.0/2.3 Plug
- TFT-402

Features:

- Max Frequency 5.8 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- · Double Shielded
- FEP Jacket
- 500 Mating Cycles

Applications:

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

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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]

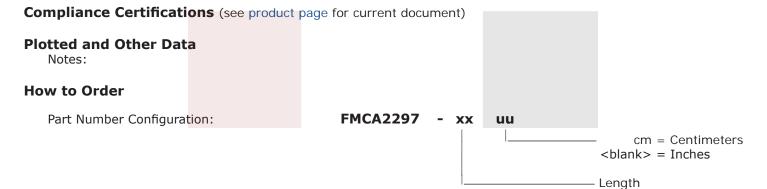
Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|----------------------|------------------|
| Туре | 1.0/2.3 Plug | 1.0/2.3 Plug |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material & Plating | Brass, Silver | Brass, Silver |
| Contact Plating Spec. | 200 µin | 200 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Spec. | 80 µin | 80 µin |
| Coupling Nut Material & Plat | ing Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec. | 80 μin | 80 μin |
| | | |

Environmental Specifications Temperature

Operating Range

-40 to +125 deg C



Example: FMCA2297-12 = 12 inches long cable

FMCA2297-100cm = 100 cm long cable





Low PIM 1.0/2.3 Plug to 1.0/2.3 Plug Cable 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: Low PIM 1.0/2.3 Plug to 1.0/2.3 Plug Cable TFT-402 Coax Using Times Microwave Components FMCA2297

URL: https://www.fairviewmicrowave.com/low-pim-1.0-2.3-plug-1.0-2.3-plug-cable-tft-402-coax-fmca2297-p.aspx







