



FMCA2507-50CM

Configuration

Connector 1: 7/16 DIN MaleConnector 2: N Female Bulkhead

Cable Type: TFT-5G-402Coax Flex Type: Flexible

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

Description

The 7/16 DIN male to type N female bulkhead 50 cm cable using TFT-5G-402 coax, part number FMCA2507-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-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 FMCA2507-50CM 7/16 DIN male to type N female cable assembly operates to 5.8 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 80 | | | dB |
| Passive Intermodulation | | | -160 | dBc |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | | |





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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|-------------|---------|--------------|
| Capacitance | | 26.7 [87.6] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.3 | 0.34 | 0.4 | 0.52 | 0.69 | 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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Width/Diameter 1.25 in [31.75 mm]

Cable

Cable TypeTFT-5G-402Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFE

Dielectric Type PTFE
Number of Shields 2
Jacket Material FEP, Blue

Jacket Diameter0.16 in [4.06 mm]One Time Minimum Bend Radius0.75 in [19.05 mm]





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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------|-------------------|
| Туре | 7/16 DIN Male | N Female Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 5 μm | 5 μm |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Tri-Metal |
| Outer Conductor Plating Specification | | 3 μm |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 3 μm | 3 μm |
| Coupling Nut Material and Plating | Brass, Tri-Metal | |
| Coupling Nut Plating Specification | 3 µm | |
| Torque | 22.083 ft-lbs 29.95 Nm | 10 in-lbs 1.13 Nm |

Environmental Specifications

Operating Range Temperature

-55 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

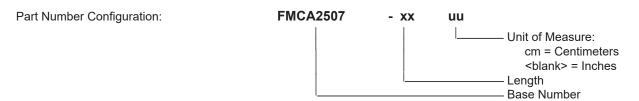




FMCA2507-50CM

Typical Performance Data

How to Order



Example: FMCA2507-12 = 12 inches long cable

FMCA2507-100cm = 100 cm long cable

Low PIM 7/16 DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM 7/16 DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components FMCA2507-50CM

URL: https://www.fairviewmicrowave.com/product/rf-cable-assemblies/low-pim-7-16-din-male-to-n-female-bulkhead-ca-ble-tft-5g-402-coax-in-50-cm-using-times-microwave-components-fmca2507-50cm.html

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FMCA2507-50CM CAD Drawing

Low PIM 7/16 DIN Male to N Female Bulkhead Cable TFT-5G-402 Coax in 50 CM Using Times Microwave Components

