

## 1.0mm Male to 1.0mm Female Armored Low Loss Test Cable 12 Inch Length



### FMCA100058-12

#### Configuration

- Connector 1: 1.0mm Male
- Connector 2: 1.0mm Female
- Coax Flex Type: Flexible

#### Features

- Max Frequency 110 GHz
- FEP Jacket

#### Applications

- General Purpose
- Test & Measurement
- Laboratory Use

#### Description

The 1.0mm male to 1.0mm female 12 inch cable using coax, part number FMCA100058-12, from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.0mm cable assembly has a male to female gender configuration with 50 ohm flexible coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100058-12 1.0mm male to 1.0mm female cable assembly operates to 110 GHz.

Custom versions of these RF cable assemblies can be built and shipped within two weeks. Custom cable assembly lengths can be obtained by contacting a sales representative. 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      |         | 110     | GHz     |
| VSWR                         |         |         | 1.55:1  |         |
| Insertion Loss               |         |         | 4.37    | dB      |
| Phase Stability with Flexure |         |         | 15      | Degrees |

Electrical Specification Notes:  
Values at 25°C, sea level.

#### Mechanical Specifications

##### Cable Assembly

|                |                   |
|----------------|-------------------|
| Length         | 12 in [304.8 mm]  |
| Width/Diameter | 0.5 in [12.7 mm]  |
| Weight         | 0.2 lbs [90.72 g] |

##### Cable

|                                      |                |
|--------------------------------------|----------------|
| Impedance                            | 50 Ohms        |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type                      | PTFE           |
| Jacket Material                      | FEP            |

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**FMCA100058-12**

**Connectors**

| Description                          | Connector 1                | Connector 2                |
|--------------------------------------|----------------------------|----------------------------|
| Type                                 | 1.0mm Male                 | 1.0mm Female               |
| Impedance                            | 50 Ohms                    | 50 Ohms                    |
| Configuration                        | Straight                   | Straight                   |
| Contact Material and Plating         | Brass, Gold                | Brass, Gold                |
| Outer Conductor Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

**Environmental Specifications**

Operating Range Temperature -55 to +125 deg C

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

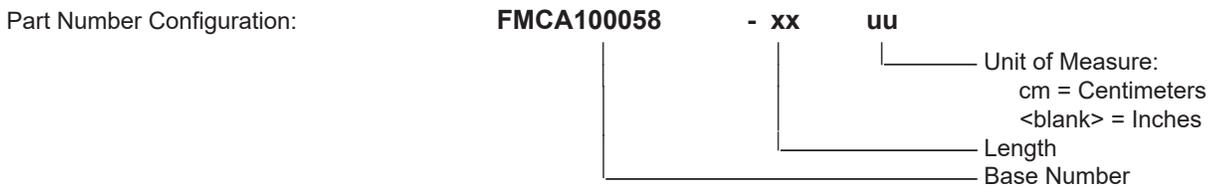
1.0mm Male to 1.0mm Female Armored  
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**FMCA100058-12**

**Typical Performance Data**

**How to Order**



Example: FMCA100058-12 = 12 inches long cable  
FMCA100058-100cm = 100 cm long cable

1.0mm Male to 1.0mm Female Armored Low Loss Test Cable 12 Inch Length 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: [1.0mm Male to 1.0mm Female Armored Low Loss Test Cable 12 Inch Length FMCA100058-12](https://www.fairviewmicrowave.com/1.0mm-male-to-1.0mm-female-cable-in-12-inch-fmca100058-12-p.aspx)

URL: <https://www.fairviewmicrowave.com/1.0mm-male-to-1.0mm-female-cable-in-12-inch-fmca100058-12-p.aspx>

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# FMCA100058-12 CAD Drawing

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