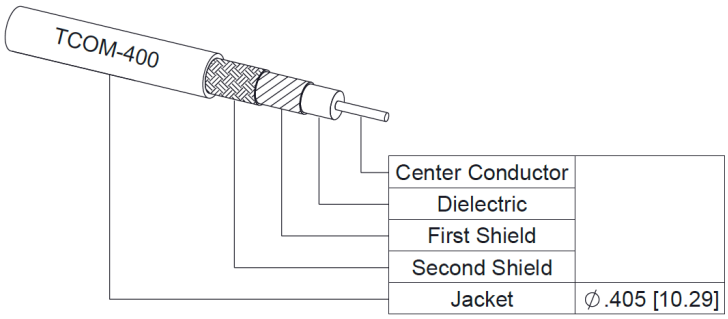
# SMA Male to SMA Male Cable TCOM-400 Coax



## FMCA19360/HS

### Configuration

- Connector 1:  SMA Male
- Connector 2:  SMA Male
- Cable Type: TCOM-400
- Coax Flex Type: Flexible




### Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

The SMA male to SMA male cable using TCOM-400 coax, part number FMCA19360/HS, 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 TCOM-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA19360/HS SMA male to SMA male cable assembly operates to 10 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 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 | | 10 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.2 [3.94] | | ns/ft [ns/m] |
| Capacitance | | 23.9 [78.41] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 1.39 [4.56] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 1.47 [4.82] | | Ohms/1000ft [Ohms/Km] |


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# SMA Male to SMA Male Cable TCOM-400 Coax



## FMCA19360/HS

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Jacket Spark | | | 8,000 | Vrms |

### Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| | | Frequency | 500 | 1000 | 2500 | 5000 | 10000 | MHz | |
| FMCA19360/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.03 | 0.044 | 0.072 | 0.104 | 0.157 | dB/ft | |
| | | | 0.1 | 0.15 | 0.24 | 0.35 | 0.52 | dB/m | |
| FMCA19360/HS-6 | 6 inch | Insertion Loss (Typ.) | 0.22 | 0.23 | 0.24 | 0.26 | 0.28 | dB | 0.18 |
| FMCA19360/HS-9 | 9 inch | Insertion Loss (Typ.) | 0.23 | 0.24 | 0.26 | 0.28 | 0.32 | dB | 0.2 |
| FMCA19360/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.23 | 0.25 | 0.28 | 0.31 | 0.36 | dB | 0.22 |
| FMCA19360/HS-18 | 18 inch | Insertion Loss (Typ.) | 0.25 | 0.27 | 0.31 | 0.36 | 0.44 | dB | 0.26 |
| FMCA19360/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.35 | 0.41 | 0.52 | dB | 0.3 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

| | | |
|---|---|---|
| Loss due to Connector 1: | 0.1 | dB |
| Loss due to Connector 2: | 0.1 | dB |
| Base Weight: | 0.22 | pounds |
| Additional Weight per Inch: | 0.0066 | pounds |

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Width/Diameter | 0.705 in [17.91 mm] |
| Weight | 0.22 lbs [99.79 g] |

**Cable**

| | |
|---|---|
| Cable Type | TCOM-400 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.405 in [10.29 mm] |
| One Time Minimum Bend Radius | 1 in [25.4 mm] |
| Repeated Minimum Bend Radius | 4 in [101.6 mm] |
| Bending Moment | 0.5 lbs-ft [0.68 N-m] |
| Flat Plate Crush | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength | 160 lbs [72.57 Kg] |


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# SMA Male to SMA Male Cable TCOM-400 Coax



## FMCA19360/HS

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Coupling Nut Material and Plating | Brass, Gold | Brass, Gold |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 3 in-lbs 0.34 Nm | 3 in-lbs 0.34 Nm |

### Environmental Specifications

| | |
|---|---|
| Operating Range Temperature | -40 to +85 deg C |

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

### Plotted and Other Data

Notes:


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# SMA Male to SMA Male Cable TCOM-400 Coax



## FMCA19360/HS

### Typical Performance Data

### How to Order

Part Number Configuration: **FMCA19360/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA19360/HS — Base Number

Example: FMCA19360/HS-12 = 12 inches long cable
FMCA19360/HS-100cm = 100 cm long cable

SMA Male to SMA Male Cable TCOM-400 Coax 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: SMA Male to SMA Male Cable TCOM-400 Coax FMCA19360/HS

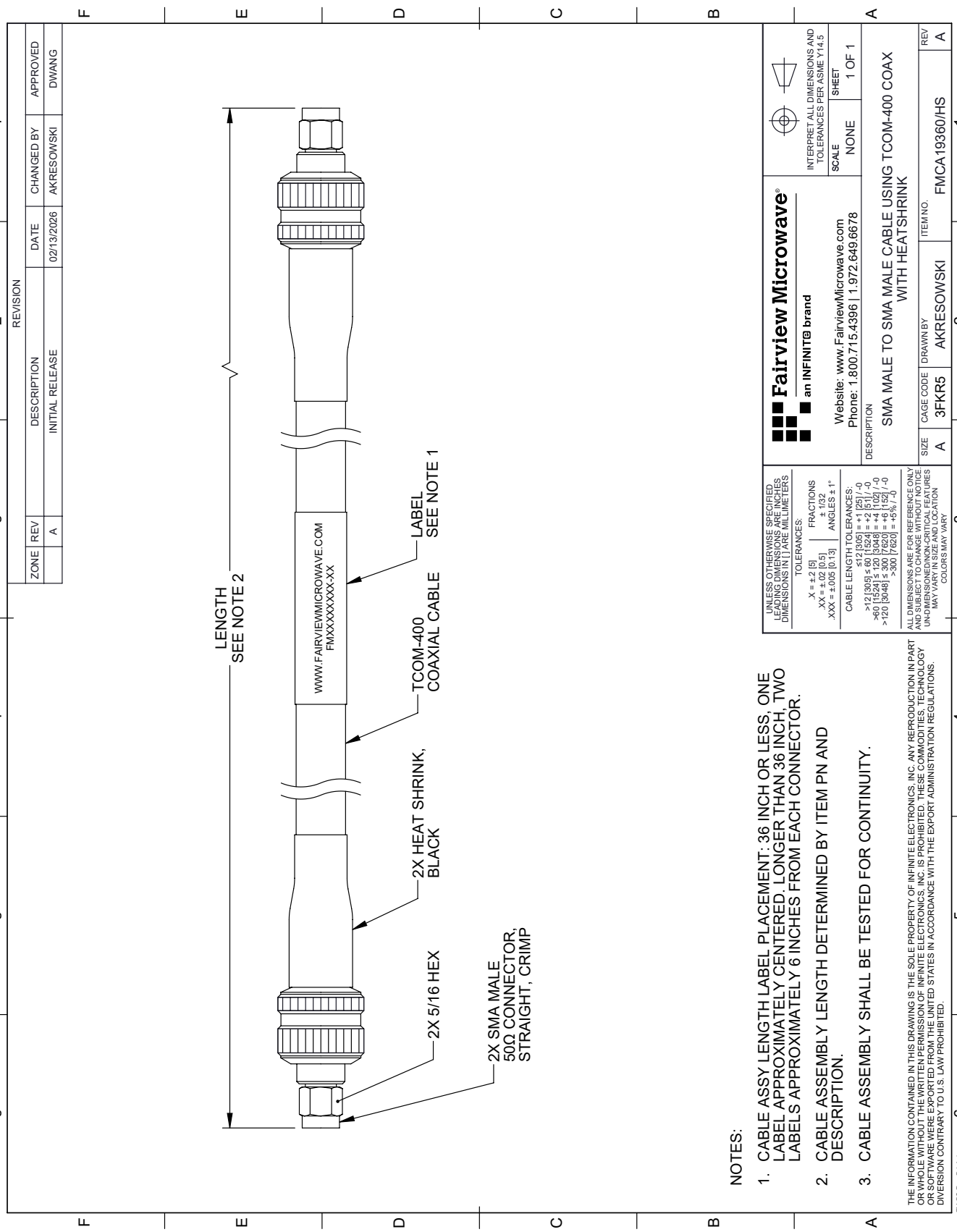
URL: https://www.fairviewmicrowave.com/sma-male-to-sma-male-cable-tcom-400-coax-fmca19360-hs-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.


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# FMCA19360/HS CAD Drawing

SMA Male to SMA Male Cable TCOM-400 Coax






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