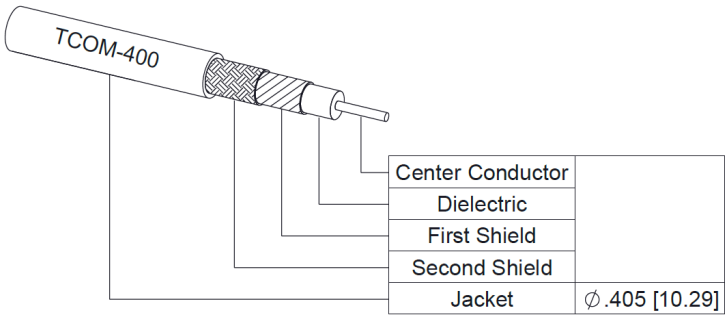
TNC Male to SMA Male Cable TCOM-400 Coax

FMCA20796/HS

Configuration

- Connector 1: TNC 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 TNC male to SMA male cable using TCOM-400 coax, part number FMCA20796/HS, from Fairview Microwave is in-stock and ships same day. This Fairview TNC 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 FMCA20796/HS TNC 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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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	
FMCA20796/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	
FMCA20796/HS-6	6 inch	Insertion Loss (Typ.)	0.42	0.43	0.44	0.46	0.48	dB	0.153
FMCA20796/HS-9	9 inch	Insertion Loss (Typ.)	0.43	0.44	0.46	0.48	0.52	dB	0.1605
FMCA20796/HS-12	12 inch	Insertion Loss (Typ.)	0.43	0.45	0.48	0.51	0.56	dB	0.168
FMCA20796/HS-18	18 inch	Insertion Loss (Typ.)	0.45	0.47	0.51	0.56	0.64	dB	0.183
FMCA20796/HS-24	24 inch	Insertion Loss (Typ.)	0.46	0.49	0.55	0.61	0.72	dB	0.198

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:	0.3	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.168	pounds
Additional Weight per Inch:	0.0025	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.705 in [17.91 mm]
Weight	0.217 lbs [98.43 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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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification	ASTM-B700	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	ASTM-B689	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Specification	ASTM-B689	
Hex Size		5/16 inch
Torque		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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Typical Performance Data

How to Order

Part Number Configuration: **FMCA20796/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA20796/HS — Base Number

Example: FMCA20796/HS-12 = 12 inches long cable
FMCA20796/HS-100cm = 100 cm long cable

TNC 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: TNC Male to SMA Male Cable TCOM-400 Coax FMCA20796/HS

URL: https://www.fairviewmicrowave.com/tnc-male-to-sma-male-cable-tcom-400-coax-fmca20796-hs-p.aspx

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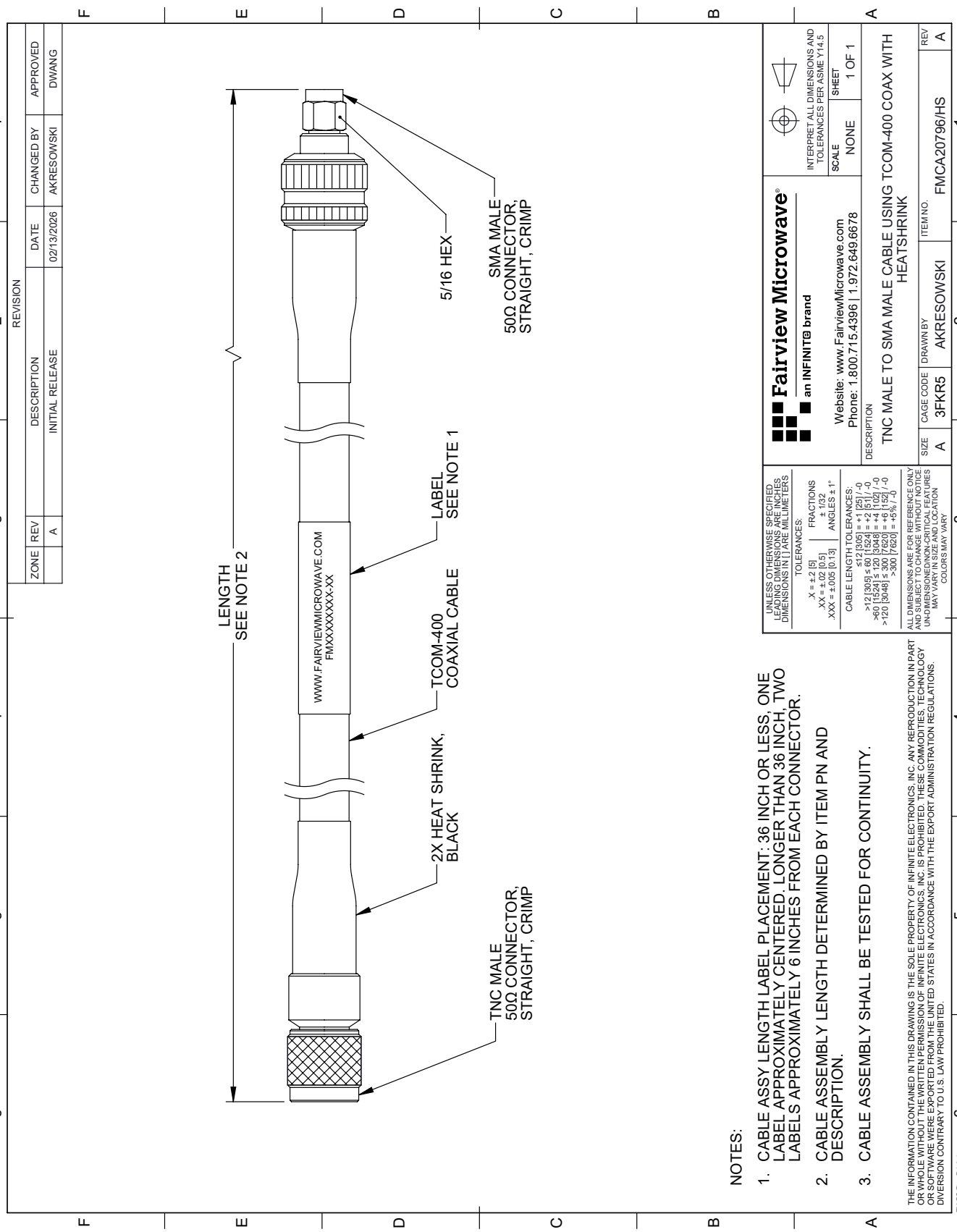
FMCA20796/HS CAD Drawing

TNC Male to SMA Male Cable TCOM-400 Coax



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