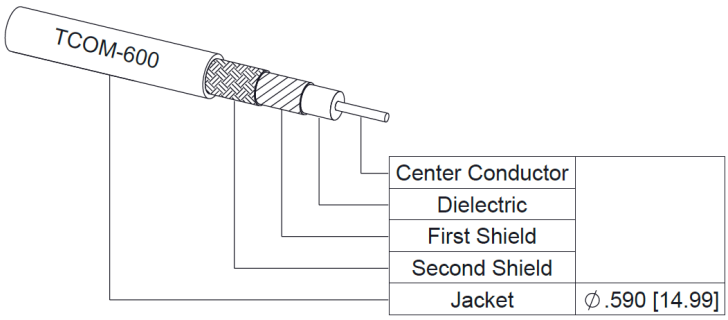
N Male to N Male Cable TCOM-600 Coax



FMCA17134/HS

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: TCOM-600
- Coax Flex Type: Flexible



Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The type N male to type N male cable using TCOM-600 coax, part number FMCA17134/HS, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-600 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA17134/HS type N male to type N 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		87		%
RF Shielding	100			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.52 [4.99]		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	
FMCA17134/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.018	0.027	0.046	0.068	0.106	dB/ft	
			0.06	0.09	0.16	0.23	0.35	dB/m	
FMCA17134/HS-6	6 inch	Insertion Loss (Typ.)	0.21	0.22	0.23	0.24	0.26	dB	0.3665
FMCA17134/HS-9	9 inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.26	0.28	dB	0.40075
FMCA17134/HS-12	12 inch	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.435
FMCA17134/HS-18	18 inch	Insertion Loss (Typ.)	0.23	0.25	0.27	0.31	0.36	dB	0.5035
FMCA17134/HS-24	24 inch	Insertion Loss (Typ.)	0.24	0.26	0.3	0.34	0.42	dB	0.572

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:	0.435	pounds
Additional Weight per Inch:	0.0114	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.86 in [21.84 mm]
Weight	0.435 lbs [197.31 g]

Cable

Cable Type	TCOM-600
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	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N 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, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

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: **FMCA17134/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA17134/HS — Base Number

Example: FMCA17134/HS-12 = 12 inches long cable
FMCA17134/HS-100cm = 100 cm long cable

N Male to N Male Cable TCOM-600 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: N Male to N Male Cable TCOM-600 Coax FMCA17134/HS

URL: https://www.fairviewmicrowave.com/n-male-to-n-male-cable-tcom-600-coax-fmca17134-hs-p.aspx

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FMCA17134/HS CAD Drawing

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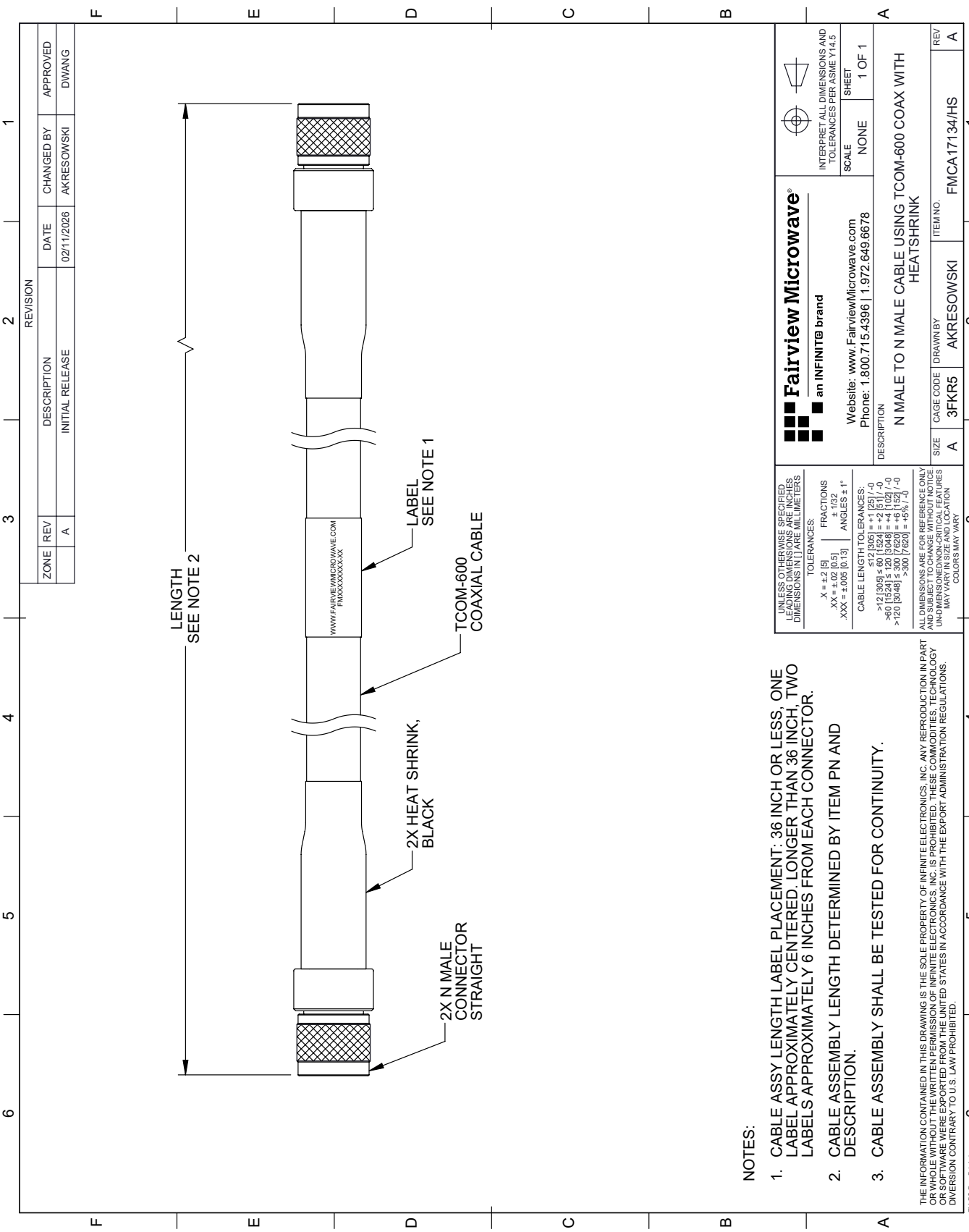

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