

1.85mm Male to 1.85mm Male Cable FM-106LL Coax

The 1.85mm male to 1.85mm male cable using FM-106LL coax, part number FMCA1828, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm cable assembly has a male to male gender configuration with 50 ohm flexible FM-106LL coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1828 1.85mm male to 1.85mm male cable assembly operates to 67 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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	Min	Typ	Max	Units
Frequency Range	DC		67	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
Capacitance		25.91 [85.01]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	18	40	50	67	GHz
Insertion Loss (Max.)	1.2	1.4	2	2.5	3.2	dB/ft
	3.94	4.59	6.56	8.2	10.5	dB/m

Electrical Specification Notes:
 Assembly to be 100% tested for Return loss and Insertion loss.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type FM-106LL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Outer Conductor Diameter 0.085 in [2.16 mm]
 Jacket Material FEP



Configuration:

- 1.85mm Male
- 1.85mm Male
- FM-106LL

Features:

- Max Frequency 67 GHz
- 78% Phase Velocity
- Double Shielded
- FEP Jacket
- 500 Mating Cycles
- Low Loss

Applications:

- General Purpose
- Laboratory Use
- Automated Test Systems
- 5G High Data Rate Applications

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Jacket Diameter 0.106 in [2.69 mm]

Connectors

Description	Connector 1	Connector 2
Type	1.85mm Male	1.85mm Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range -40 to +125 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1828 - xx uu

cm = Centimeters
<blank> = Inches

Length

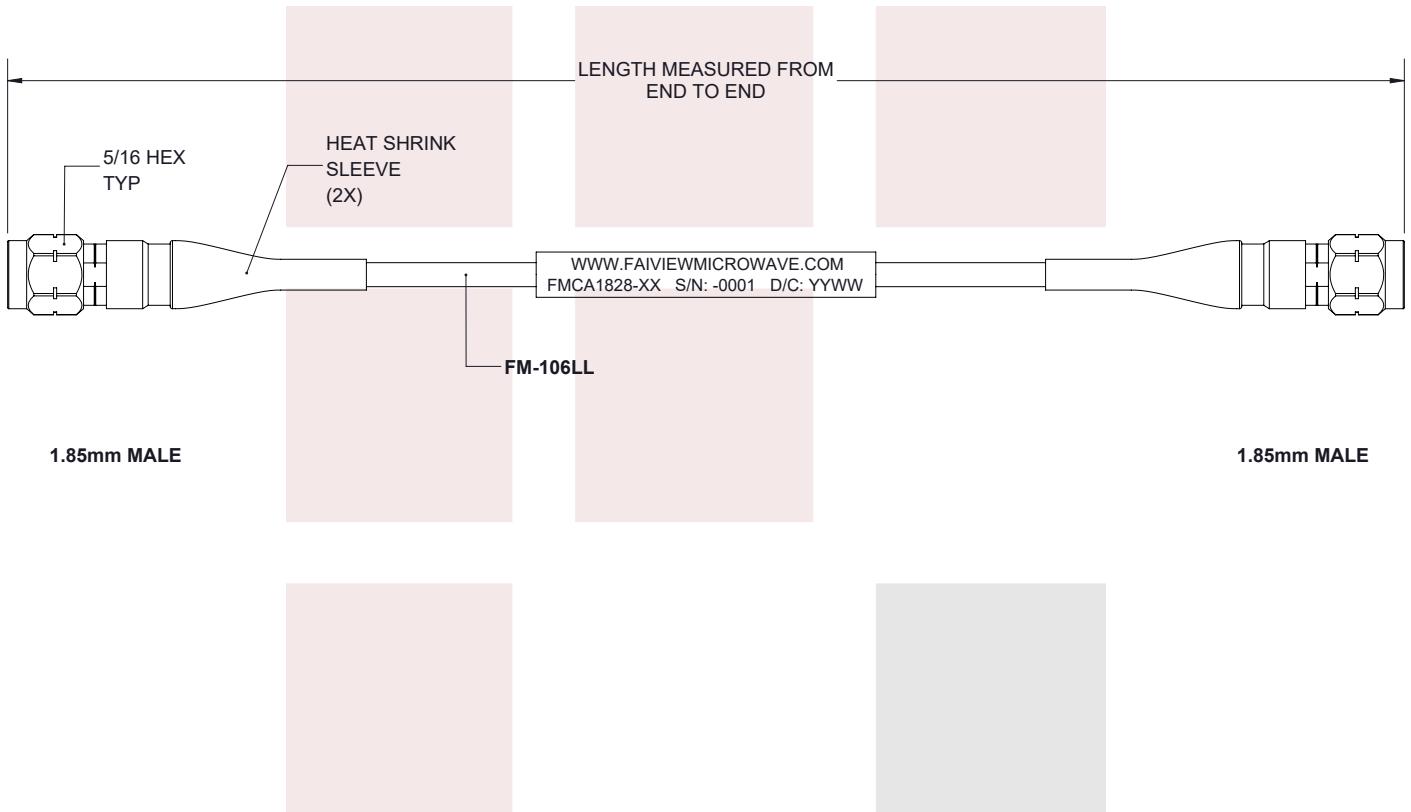
Example: FMCA1828-12 = 12 inches long cable
FMCA1828-100cm = 100 cm long cable

1.85mm Male to 1.85mm Male Cable FM-106LL Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [1.85mm Male to 1.85mm Male Cable FM-106LL Coax FMCA1828](#)


URL: <https://www.fairviewmicrowave.com/1.85mm-male-1.85mm-male-cable-fm-106ll-coax-fmca1828-p.aspx>

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

 Fairview Microwave RF COMPONENTS ON DEMAND. <i>Done!</i>	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].							
	TITLE 1.85mm Male to 1.85mm Male Cable FM-106LL Coax		DWG NO FMCA1828		CAGE CODE 3FKR5			
CAD FILE	01/28/19	SHEET	1 OF 1	SCALE	N/A	SIZE	A	7361