

## Skew Matched Pair 1.85mm Male to 1.85mm Male Cable FM-106LL Coax

The 1.85mm male to 1.85mm male skew matched coaxial pair, part number FMCA1735, from Fairview Microwave is in-stock and ships same day. This 1.85mm to 1.85mm flexible cable assembly pair is delay matched to reduce skew, supporting signal integrity, jitter measurements and SERDES applications. Fairview Microwave phase matches these coaxial pairs to control the time delay as so signals can be applied to differential circuits with minimal skew. The FMCA1735 1.85mm male to 1.85mm male matched cable pair operates to 67 GHz.

Fairview's 1.85mm to 1.85mm male skew matched pair FMCA1735 datasheet, specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and high speed digital connections allows designers to configure and customize their signals however they like. From reducing skew, improving jitter performance or performing signal integrity testing, Fairview Microwave has the right delay matched cable solutions to meet your needs.

### 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
Channel-to-Channel Delay Match			2	ps

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	5	18	40	50	67	GHz
Insertion Loss (Max.)	0.7	1.1	1.7	2.4	3.2	dB/ft
	2.3	3.61	5.58	7.87	10.5	dB/m

#### Electrical Specification Notes:

Insertion Loss data above is for the 12 inch length. Electrical specifications are per channel. Delay match applies when cables are bent in same shape/configuration.

### 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



### Configuration:

- 1.85mm Male
- 1.85mm Male
- FM-106LL
- 2 Channels

### Features:

- Max Frequency 67 GHz
- 78% Phase Velocity
- Double Shielded
- FEP Jacket
- Extremely Flexible
- 2 ps Delay Match
- Excellent VSWR of 1.4:1
- 100% Skew Match Tested
- Polarity Indicators For Matched Cable Ends

### Applications:

- General Purpose
- Laboratory Use
- 56 Gbps SERDES
- Jitter Measurements
- Differential Signals
- Physical Layer Characterization
- Signal Integrity Measurements

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Shield Layer 2	Silver Plated Copper
Jacket Material	FEP
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

**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:

**FMCA1735 - xx uu**

 cm = Centimeters  
 <blank> = Inches

Length

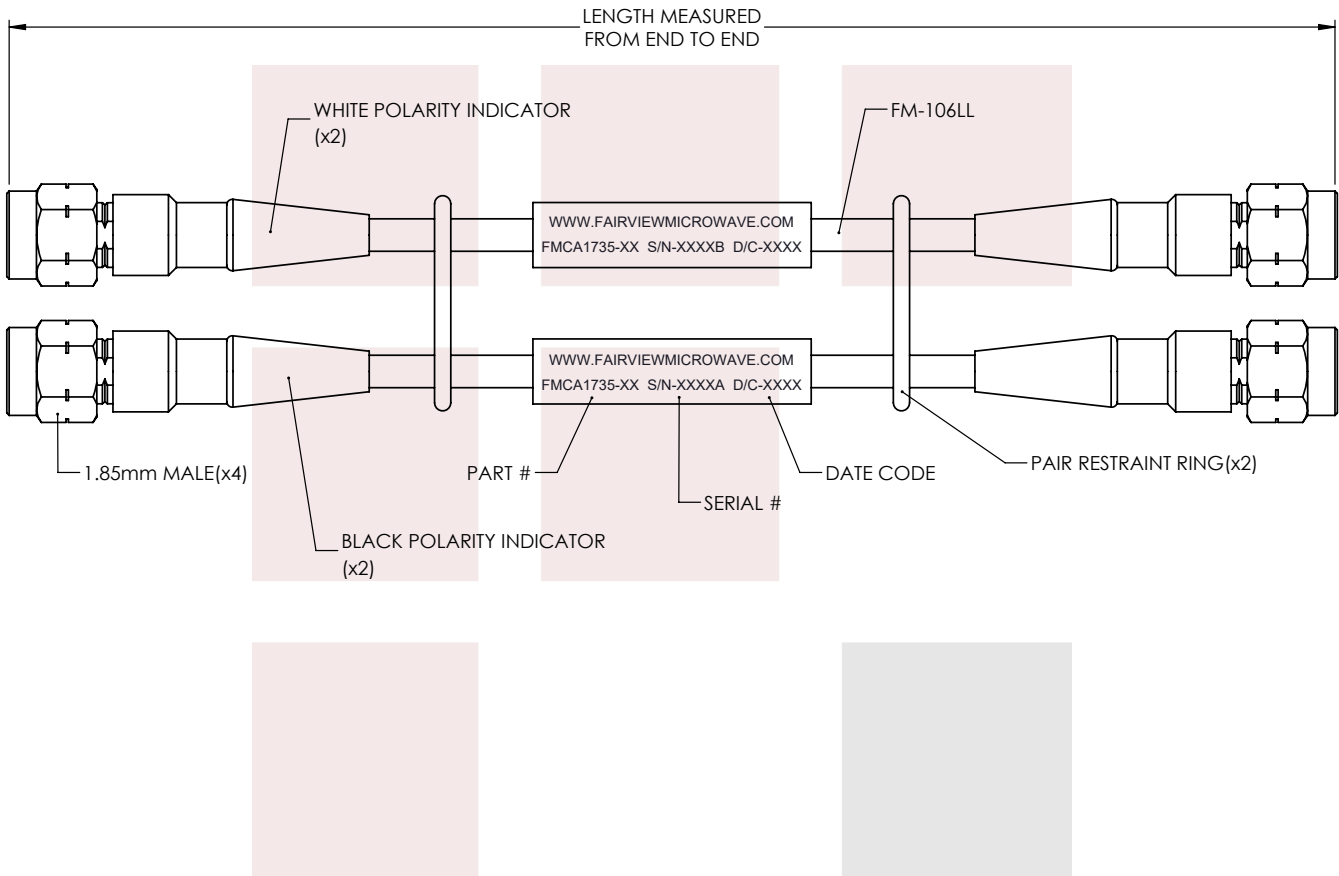
 Example: FMCA1735-12 = 12 inches long cable  
 FMCA1735-100cm = 100 cm long cable

Skew Matched Pair 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: [Skew Matched Pair 1.85mm Male to 1.85mm Male Cable FM-106LL Coax FMCA1735](#)

 URL: <https://www.fairviewmicrowave.com/skew-matched-pair-1.85mm-male-1.85mm-male-cable-fm-106ll-coax-fm-ca1735-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

<p><b>Fairview Microwave</b> RF COMPONENTS ON DEMAND. <i>Done!</i></p>	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 Skew Matched Pair 1.85mm Male to 1.85mm Male Cable FM-106LL Coax				DWG NO FMCA1735		CAGE CODE 3FKR5	
	CAD FILE	11/05/18	SHEET	1 OF 1	SCALE	N/A	SIZE	A