

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

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

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
Shield Layer 2	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

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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

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

Cable Length	Tolerance
3.94 in - 11.42 in	+0.197 in/-0.0
11.81 in - 38.98 in	+0.591 in/-0.0
39.37 in - 117.72 in	+1.181 in/-0.0
118.11 in - 393.31 in	+1.969 in/-0.0
393.70 in - 3937.01 in	+3.937 in/-0.0

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

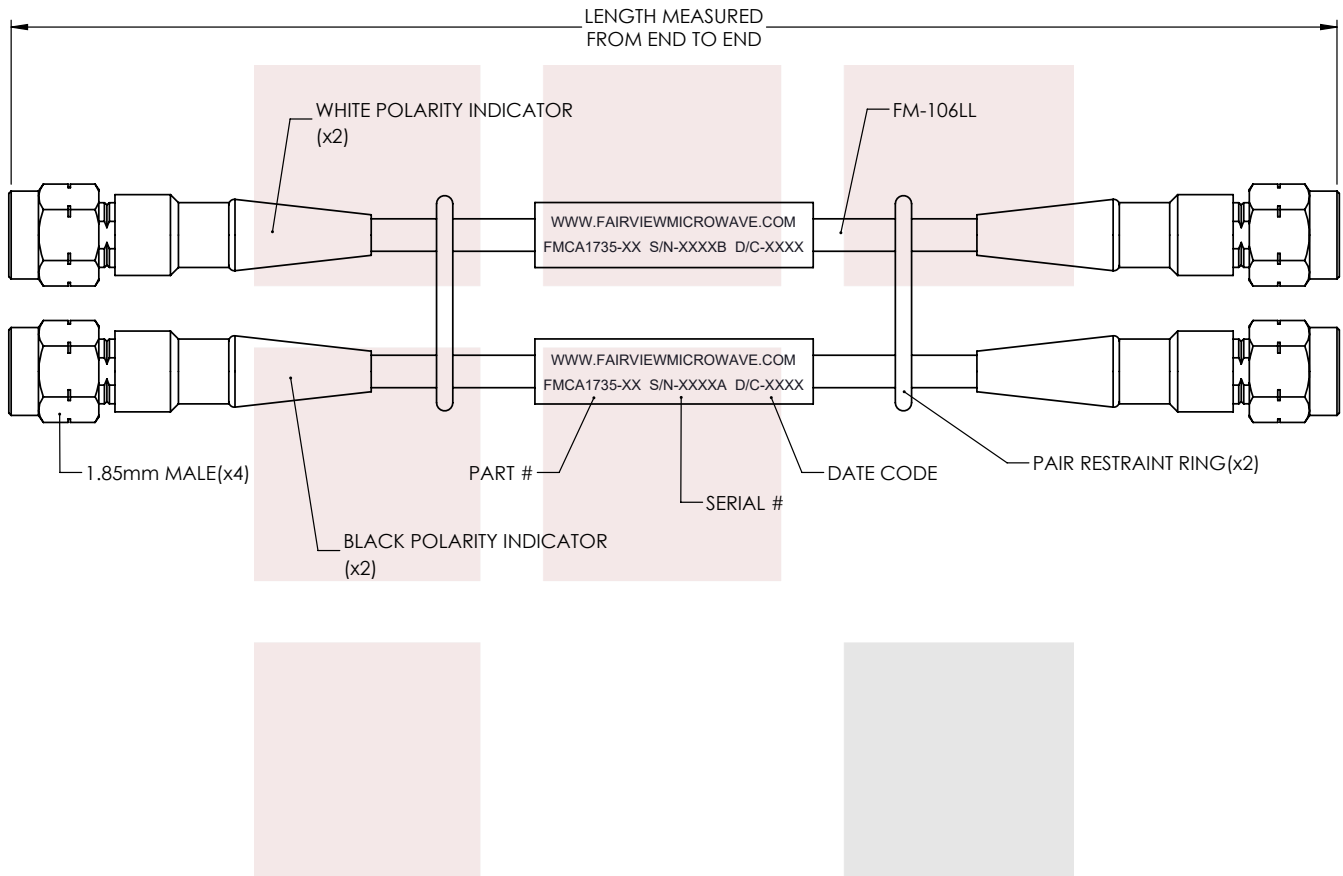
Skew Matched Pair 1.85mm Male to 1.85mm Male Cable FM-106LL Coax and RoHS from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Skew Matched Pair 1.85mm Male to 1.85mm Male Cable FM-106LL Coax and RoHS FMCA1735](#)

URL: <https://www.fairviewmicrowave.com/skew-matched-pair-1.85mm-male-1.85mm-male-cable-fm-106ll-coax-fmca1735-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

	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 and RoHS			DWG NO FMCA1735		CAGE CODE 3FKR5		
	CAD FILE	11/05/18	SHEET	1 OF 1	SCALE	N/A	SIZE	A