



**RF/Microwave cable assemblies, with a range of connectors, are available from Molex, using our Temp-Flex low loss and ultra low loss cables with outer jacket diameters of .056", .101" and .158".**

Molex's RF/Microwave cable assemblies include high performance flexible coaxial cable from our Temp-Flex operation. A wide range of connectors are utilized to provide assemblies for many different markets and applications.

The cable comes standard with silver plated conductors, FEP Dielectric, double shields and FEP jacket. The standard, Low Loss cables use solid, proprietary low loss FEP dielectric with 70% Velocity of Propagation. The Ultra Low Loss cables use a unique air core design with up to 87% Velocity of Propagation. The diameter over the shield is comparable to standard semi-rigid sizes making these cables an ideal flexible alternative.

Connector options include SMA, 2.92mm, SMP, SMPM and many others.

For more information, visit us at [www.molex.com](http://www.molex.com).

### Features and Benefits

Shielding Effectiveness 100 dB or better	Flexible alternative to semi-rigid coaxial assemblies
FEP Insulation and Jacket	Wide Operating Temperature Range
Low loss, solid core cable fits standard semi-rigid connectors	Wide range of connector styles for standard assemblies

**RF/Microwave Cable Assemblies**  
**89762** Cable Assemblies with Temp-Flex Low Loss & Ultra Low Loss Cable



### Connector Availability Matrix

	Low Loss			Ultra Low Loss (assemblies)		
	047SC-2901	086SC-2401	141SC-1901	047-2801	086-2201	141-1701
SMPM Jack Straight	X	X		X	X	
SMPM Jack Right Angle	X	X		X	X	
SMP Jack Straight	X	X	X	X	X	X
SMP Jack Right Angle	X	X	X	X	X	X
SMA Plug Straight	X	X	X	X	X	X
SMA Plug Right Angle	X	X	X	X	X	X
SMA Jack Straight	X	X	X	X	X	X
2.92mm Plug Straight	X	X	X	X	X	X
2.4mm Plug Straight	X	X		X	X	
Type N Plug Straight		X	X		X	X
TNC Jack Straight	X	X				

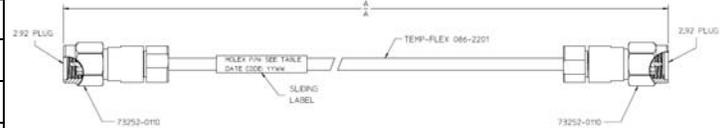
### Temp-Flex Cable Performance Characteristics

Cable P/N	Impedance (Ohms)	VOP	Capacitance	Min Static Bend Radius	Center Conductor	Insulation	Jacket	OD	Cut Off Freq.
047SC-2901	50±1	70%	29 pF/ft	0.20"	0.0113"	FEP	FEP	.056"	112 GHz
086SC-2401	50±1	70%	29 pF/ft	0.30"	0.0201"	FEP	FEP	.101"	62 GHz
141SC-1901	50±1	70%	29 pF/ft	0.50"	0.036"	FEP	FEP	.157"	41 GHz
047-2801	50±1	87%	23.3 pF/ft	0.20"	0.0126"	FEP	FEP	.055"	143 GHz
086-2201	50±1	86.4%	23.6 pF/ft	0.38"	0.0253"	FEP	FEP	.101"	72 GHz
141-1701	50±1	87%	23.3 pF/ft	0.75"	0.0453"	FEP	FEP	.158"	42 GHz

## Ultra Low Loss (Monofilament) Assemblies

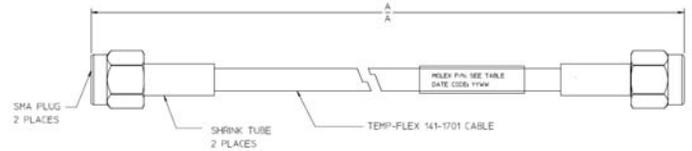
### 2.92mm Plug to Plug, 086 Ultra Low Loss cable assemblies

Part Number	Length (inches)	Insertion Loss	VSWR
89762-1320	6.0	0.8 dB	1.40 max to 40 GHz
89762-1321	9.0	1.2 dB	1.40 max to 40 GHz
89762-1322	12.0	1.6 dB	1.40 max to 40 GHz
89762-1323	15.0	2.0 dB	1.40 max to 40 GHz
89762-1324	18.0	2.4 dB	1.40 max to 40 GHz
89762-1325	120.0	16.0 dB	1.40 max to 40 GHz



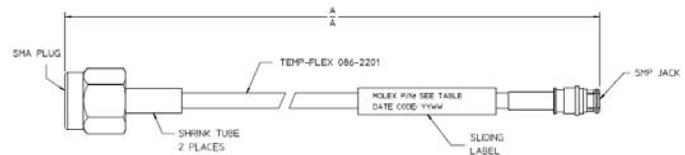
### SMA Plug to SMA Plug, 141 Ultra Low Loss cable assemblies

Part Number	Length	Insertion Loss	VSWR
89762-1370	6.0	0.35 dB	1.35 max to 26 GHz
89762-1371	12.0	0.70 dB	1.35 max to 26 GHz
89762-1372	120.0	7.00 dB	1.35 max to 26 GHz



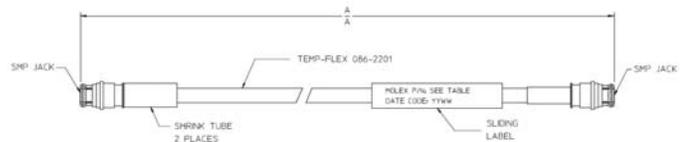
### SMA Plug to SMP Jack, 086 Ultra Low Loss cable assemblies

Part Number	Length	Insertion Loss	VSWR
89762-1400	6.0	0.70 dB	1.50 max to 26 GHz
89762-1401	9.0	1.05 dB	1.50 max to 26 GHz
89762-1402	12.0	1.40 dB	1.50 max to 26 GHz
89762-1403	120.0	14.0 dB	1.50 max to 26 GHz

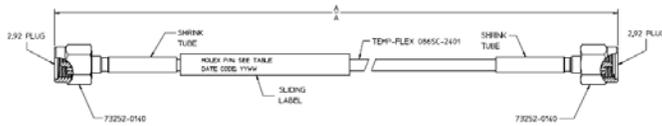


### SMP Jack to SMP Jack, 086 Ultra Low Loss cable assemblies

Part Number	Length	Insertion Loss	VSWR
89762-1420	6.0	0.75 dB	1.70 max to 26 GHz
89762-1421	9.0	1.12 dB	1.70 max to 26 GHz
89762-1422	12.0	1.50 dB	1.70 max to 26 GHz
89762-1423	120.0	15.0 dB	1.70 max to 26 GHz

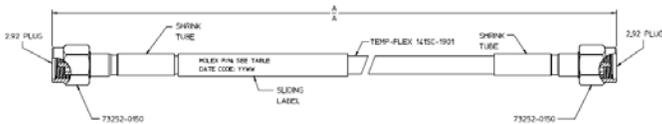


### 2.92mm Plug to Plug, 086 Low Loss cable assemblies



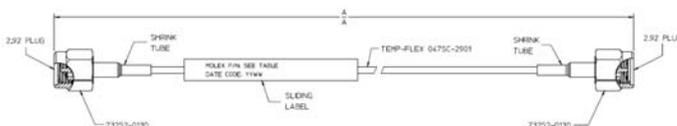
Part Number	Length (inches)	Insertion Loss	VSWR
89762-1540	6.0	0.92 dB	1.50 max to 40 GHz
89762-1541	9.0	1.33 dB	1.50 max to 40 GHz
89762-1542	12.0	1.74 dB	1.50 max to 40 GHz
89762-1543	15.0	2.15 dB	1.50 max to 40 GHz
89762-1544	18.0	2.56 dB	1.50 max to 40 GHz
89762-1545	120.0	16.5 dB	1.50 max to 40 GHz

### 2.92mm Plug to 2.92mm Plug, 141 Low Loss cable assemblies



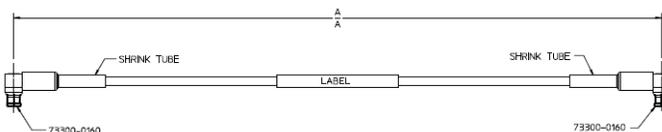
Part Number	Length	Insertion Loss	VSWR
89762-1620	6.0	0.59 dB	1.45 max to 40 GHz
89762-1621	9.0	0.84 dB	1.45 max to 40 GHz
89762-1622	12.0	1.08 dB	1.45 max to 40 GHz
89762-1623	15.0	1.33 dB	1.45 max to 40 GHz
89762-1624	18.0	1.57 dB	1.45 max to 40 GHz
89762-1625	120.0	9.9 dB	1.45 max to 40 GHz

### 2.92mm Plug to 2.92mm Plug, 047 Low Loss cable assemblies



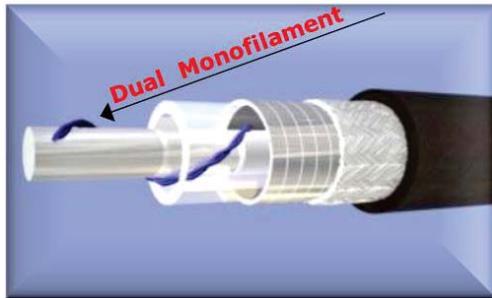
Part Number	Length	Insertion Loss	VSWR
89762-1580	6.0	1.40 dB	1.50 max to 40 GHz
89762-1581	9.0	2.05 dB	1.50 max to 40 GHz
89762-1582	12.0	2.72 dB	1.50 max to 40 GHz
89762-1583	15.0	3.36 dB	1.50 max to 40 GHz
89762-1584	18.0	4.01 dB	1.50 max to 40 GHz
89762-1585	120.0	26.2 dB	1.50 max to 40 GHz

### SMPM R/A Jack to R/A SMPM Jack, 047 Low Loss cable assemblies



Part Number	Length	Insertion Loss	VSWR
89762-2740	2.0	1.05 dB	1.45 max to 18 GHz
89762-2741	4.0	1.17 dB	1.45 max to 18 GHz
89762-2742	6.0	1.41 dB	1.45 max to 18 GHz
89762-2743	12.0	2.73 dB	1.45 max to 18 GHz
89762-2744	18.0	4.02 dB	1.45 max to 18 GHz
89762-2745	24.0	26.3 dB	1.45 max to 18 GHz





## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9