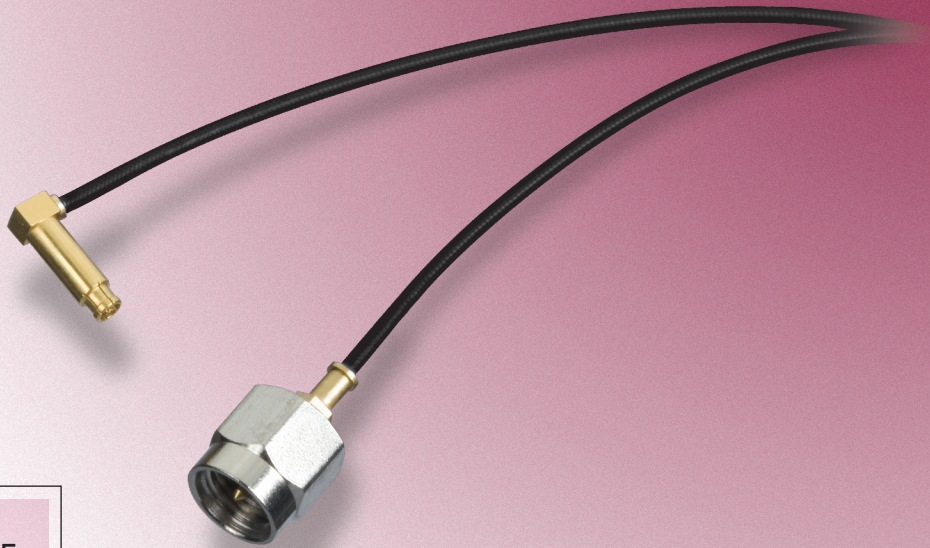


# FLEXFIT™



## HIGHLY FLEXIBLE MINIATURE CABLE ASSEMBLIES



Does your application require:

- low resistance to flexure?
- continual movement?
- low weight?

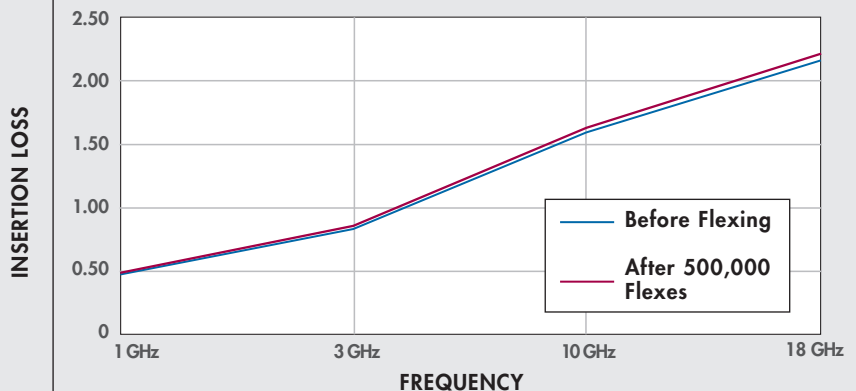
Does it have **tight space constraints**?

Whether you're facing one or more of these issues, FlexFit™ assemblies can provide your solution.

The FlexFit™ cable has a stranded center conductor that offers **ultra flexibility** (>500,000 flexures) **with electrical and physical stability**.

And, its small size (**0.052"/1.32 mm OD**) satisfies weight and space constraints that can impact ease of installation.

Repetitive Flex Test, FlexFit™ Cables – 50° Bend



Data is based on a 1' cable length

### FEATURES

- ~ Stranded center conductor
- ~ 0.052"/1.32 mm Diameter
- ~ Shielding: Flat wire inner braid, double screen

### ADVANTAGES

- ~ No movement-related performance degradation
- ~ Low resistance to movement
- ~ Increased performance life
- ~ Bends easily
- ~ Light weight
- ~ Reduced RF leakage

### BENEFITS

- ~ Stable electrically
- ~ Low vibration propagation through cable
- ~ Low lateral force on connectors
- ~ Reliability over lifetime
- ~ Fits in tight spaces, easy installation, no vibration
- ~ Good for flight; weight-sensitive applications
- ~ Better signal
- ~ Less interference



**TELEDYNE  
STORM MICROWAVE**  
Everywhereyoulook™

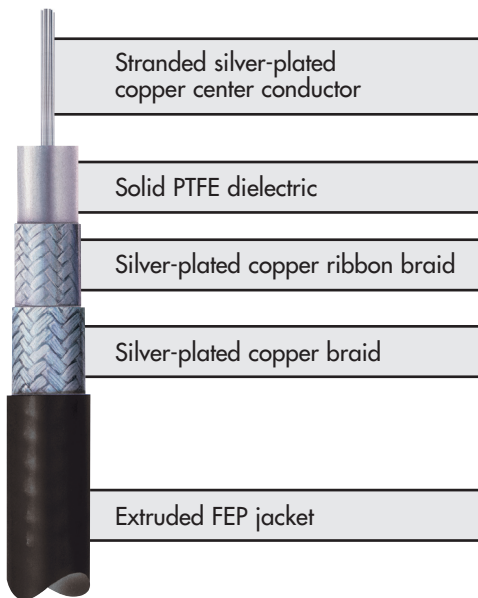
High value microwave and electronic interconnect solutions

[www.teledynestorm.com](http://www.teledynestorm.com)

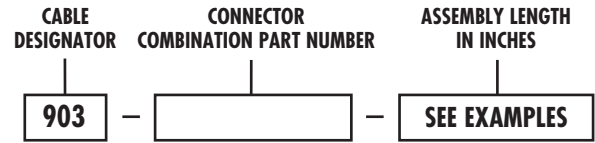
SPECIFICATIONS	FLEXFIT™
<b>Cable Designator</b>	<b>903</b>
Diameter (in/mm)	0.052 / 1.32
Max frequency (GHz)	18
Attenuation–Nom @ 2 GHz (dB/ft)	0.72
Attenuation–Nom @ 10 GHz (dB/ft)	1.69
Attenuation–Nom @ 18 GHz (dB/ft)	2.34
Shielding Effectiveness (dB, to 18 GHz) *	-55
Min Bend Radius (in/mm)	0.075 / 1.91 static 0.250 / 6.35 dynamic
Flexure (repetitive bends)	>500,000
Phase vs. Flex–Nom (° @ 18 GHz)	± 3.4
Weight (grams/ft & /m)	1.54 / 5.05
Temperature Range (°C)	-40 to +125

\* Based on 18" / 457 mm assembly with SMA connectors  
Specifications subject to change without notice.

## ■ CABLE CONSTRUCTION



## ■ ORDERING INFORMATION: Part Number Designation



### EXAMPLES:

903-0102-012 = FlexFit™, SMA SP to SSMA SP  
(assembly operates to 18 GHz), 12 inches

903-0303-008.5 = FlexFit™, GPPO® SJ to GPPO® SJ  
(assembly operates to 18 GHz), 8½ inches

CONNECTOR CODES	
SP	Straight Plug
SJ	Straight Jack
RAJ	Right-Angle Jack
BHP	Bulkhead Plug
BHJ	Bulkhead Jack

## ■ CONNECTOR COMBINATION PART NUMBERS

		18 GHz						
		SMA SP	SMA BHJ	SSMA SP	SSMA BHJ	GPO® SJ	GPPO® SJ	GPPO® RAJ
18 GHz	SMA SP	0101	0131	0102	0141	0181	0103	0105
	SMA BHJ	0131	3131	0231	3141	3181	0331	0531
	SSMA SP	0102	0231	0202	0241	0281	0203	0205
	SSMA BHJ	0141	3141	0241	4141	4181	0341	0541
	GPO® SJ	0181	3181	0281	4181	8181	0381	0581
	GPPO® SJ	0103	0331	0203	0341	0381	0303	0305
	GPPO® RAJ	0105	0531	0205	0541	0581	0305	0505

GPO® and GPPO® are marks of Corning Gilbert