



## Overview

Amphenol RF offers a variety of high-performance SMPM cable assemblies designed on industry-standard 0.047 and 0.085 inch diameter conformable and flexible cable assemblies. These pre-configured assemblies are ideal for high vibration environments when mated with limited or full detent receptacle jacks.

SMPM products feature a micro-miniature interface and push-on mating for quick installation which makes them suitable for a number of applications including antennas, testing and laboratory equipment and quantum computing. These assemblies are available in straight and right-angle configurations with standard imperial lengths ranging from three to 48 inches, and metric lengths from 100 to 3000 millimeters.

## Features and Benefits

- RF performance DC to 18 GHz
- Push-on mating styles for quick installation
- Micro-miniature package size
- Conformable and flexible cable options
- Mating receptacle detent options

## Applications

- Antennas
- Test and Laboratory Equipment
- Military
- Quantum Computing
- Radar
- Instrumentation

## Ordering Information

**SMPM to SMPM on 0.047 inch Diameter Conformable Cable**

Part Number	Description
095-725-112-XXX	SMPM Straight Plug to SMPM Straight Plug, Hand formable 0.047"
095-725-115-XXX	SMPM Right-Angle Plug to SMPM Straight Plug, Hand formable 0.047"

**SMPM to SMPM on 0.085 inch Diameter Conformable Cable**

Part Number	Description
095-725-111-XXX	SMPM Straight Plug to SMPM Straight Plug, Hand formable 0.085"
095-725-114-XXX	SMPM Right-Angle Plug to SMPM Straight Plug, Hand formable 0.085"
095-725-127-XXX	SMPM Straight Plug to SMPM Straight Plug, Tflex 405
095-725-128-XXX	SMPM Right-Angle Plug to SMPM Straight Plug, Tflex 405
095-725-129-XXX	SMPM Right-Angle Plug to SMPM Right-Angle Plug, Tflex 405

**SMPM to SMPM on 0.47 inch Diameter Flexible Cable**

Part Number	Description
095-725-130-XXX	SMPM Straight Plug to SMPM Straight Plug, flexible .047" cable
095-725-131-XXX	SMPM Right-Angle Plug to SMPM Straight Plug, flexible .047" cable
095-725-132-XXX	SMPM Right-Angle Plug to SMPM Right-Angle Plug, flexible .047" cable

*Note: 'XXX' denotes length code.*

**Amphenol RF**

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For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

# Amphenol® RF

## Technical Specifications

### Electrical

Impedance	50 Ω
Frequency Range	DC - 18 GHz
Insertion Loss	$\leq 0.03 \times \text{SQFT}[f(\text{GHz})] \text{dB}$

### Mechanical

Mating Cycle	Full detent: $\geq 100$
	Limited detent: $\geq 100$
Engagement Force	Smooth bore, Catchers mitt: $\geq 1000$
	Full detent: 4.5 lbs (20 N) typical
Disengagement Force	Smooth bore: 2.5 lbs (11.1 N) typical
	Full detent: $\geq 6.5$ lbs (28.9 N) typical
	Smooth bore: $\geq 1.5$ lbs (6.7 N) typical

### Environmental

Temperature Range	-65° to +165°C
RoHS	Compliant with exemption 6C

*Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.*

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