



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 2000 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

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information

SMPM to SMPM on 0.047 inch Diameter Conformable Cable

Part Number	Description
095-725-112XXXX	SMPM Straight Plug to SMPM Straight Plug, Hand formable 0.047"
095-725-115XXXX	SMPM Right-Angle Plug to SMPM Straight Plug, Hand formable 0.047"
095-725-130XXXX	SMPM Straight Plug to SMPM Straight Plug, Tflex 047
095-725-131XXXX	SMPM Right-Angle Plug to SMPM Straight Plug, Tflex 047
095-725-132XXXX	SMPM Right-Angle Plug to SMPM Right-Angle Plug, Tflex 047

Note: 'XXXX' denotes length code. See available lengths in chart below.

SMPM to SMPM on 0.085 inch Diameter Conformable Cable

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

Note: 'XXXX' denotes length code. See available lengths in chart below.

Standard Lengths Available

Length Code	Length in Inches (Millimeters)
-003	3.00 in (76.2 mm)
-006	6.00 in (152.40 mm)
-012	12.00 in (304.80 mm)
-018	18.00 in (457.20 mm)
-024	24.00 in (610 mm)
-036	36.00 in (914.40 mm)
-048	48.00 in (1219.20 mm)
-060	60.00 in (1524 mm)
-072	72.00 in (1828.8 mm)
-M025	9.84 in (250 mm)
-M050	19.69 in (500 mm)
-M075	29.53 in (750 mm)
-M100	39.37 in (1000 mm)
-M125	49.21 in (1250 mm)
-M150	59.06 in (1500 mm)
-M200	78.74 in (2000 mm)
-M300	118.11 in (3000 mm)

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: ≥ 100
	Limited detent: ≥ 100
	Smooth bore, Catchers mitt: ≥ 1000
Engagement Force	Full detent: 4.5 lbs (20 N) typical
	Smooth bore: 2.5 lbs (11.1 N) typical
Disengagement Force	Full detent: ≥ 6.5 lbs (28.9 N) typical
	Smooth bore: ≥ 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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