



Overview

Amphenol RF offers a variety of high-performance SMPM cable assemblies designed on RG-178 cable and 0.047 and 0.085 inch diameter conformable and flexible cable types. 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

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
095-725-112-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

SMPM to SMPM on RG-178 Cable

Part Number	Description
095-725-136-XXX	SMPM Straight Plug to SMPM Straight Plug, RG-178 cable
095-725-137-XXX	SMPM Straight Plug to SMPM Right-Angle Plug, RG-178 cable

Note: 'XXX' denotes length code.

Amphenol® RF

Technical Specifications

Electrical

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