



Overview

Amphenol RF offers 50 ohm tamper-resistant ultraminiature cable assemblies featuring the I-PEX MHF® I LK locking connector on one end. These pre-configured assemblies are available in multiple configurations designed on ultra flexible micro-coax cable types with compact SMA, RP-SMA, TNC and RP-TNC connectors with waterproof IP67-rated options. Many configurations of this assembly support higher frequency applications such as WiFi 6E.

MHF® I LK connectors are compatible with the AMC and industry-standard micro-miniature connectors. They feature a patented locking system which makes them well-suited for applications that experience continuous shock and vibration. The combination of ultraminiature and subminiature connectors on micro-coax cable allows them to be utilized in designs that require a versatile, space conscious solution.

Features and Benefits

- Waterproof IP67 options available
- Reliable electrical performance up to 6 GHz
- Patented locking system
- Ideal for continuous shock and vibration applications
- Tamper resistant design

Applications

- Drones
- GPS
- Ruggedized Mobile Devices
- Industrial Automation
- Robots
- RFID
- Asset Tracking

Amphenol RF

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Danbury, CT 06810

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

MHF® I LK Cable Assemblies

Pre-Configured Vibration-Resistant 50 Ohm Assemblies

Ordering Information

MHF® I Locking Plug to SMA Jack Cable Assemblies on 0.81 mm

Part Number	Description
095-902-614-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to SMA Jack Cable Assemblies on 1.13 mm

Part Number	Description
095-902-582-XXX	MHF® I LK Right-Angle Plug to SMA Straight Front Mount Bulkhead Jack
095-902-583-XXX	MHF® I LK Right-Angle Plug to SMA Straight Rear Mount Bulkhead Jack
095-902-584-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Front Mount Bulkhead Jack
095-902-585-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Rear Mount Bulkhead Jack

MHF® I Locking Plug to SMA Jack Cable Assemblies on 1.32 mm

Part Number	Description
095-902-613-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to SMA Jack Cable Assemblies on 1.37 mm

Part Number	Description
095-902-612-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to SMA Jack Cable Assemblies on RG-178

Part Number	Description
095-902-615-XXX	MHF® I LK Right-Angle Plug to IP67 SMA Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to RP-SMA Jack Cable Assemblies on 1.13 mm

Part Number	Description
095-902-586-XXX	MHF® I LK Right-Angle Plug to IP67 RP-SMA Straight Front Mount Bulkhead Jack
095-902-587-XXX	MHF® I LK Right-Angle Plug to IP67 RP-SMA Straight Rear Mount Bulkhead Jack
095-902-588-XXX	MHF® I LK Right-Angle Plug to RP-SMA Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to TNC Jack Cable Assemblies on 1.13 mm

Part Number	Description
095-850-309-XXX	MHF® I LK Right-Angle Plug to TNC Straight Rear Mount Bulkhead Jack
095-850-310-XXX	MHF® I LK Right-Angle Plug to IP67 TNC Straight Rear Mount Bulkhead Jack
095-850-311-XXX	MHF® I LK Right-Angle Plug to IP67 TNC Straight Front Mount Bulkhead Jack

MHF® I Locking Plug to RP-TNC Jack Cable Assemblies on 1.13 mm

Part Number	Description
095-850-313-XXX	MHF® I LK Right-Angle Plug to RP-TNC Straight Front Mount Bulkhead Jack
095-850-314-XXX	MHF® I LK Right-Angle Plug to IP67 RP-TNC Straight Front Mount Bulkhead Jack
095-850-315-XXX	MHF® I LK Right-Angle Plug to IP67 RP-TNC Straight Rear Mount Bulkhead Jack

Note: 'XXX' denotes length code. See component drawing for available lengths.

Technical Specifications

Connectors

Electrical

	SMA (RP-SMA)	TNC (RP-TNC)	MHF® I LK
Impedance	50Ω	50Ω	50Ω
Frequency Range	DC - 6 GHz	DC - 9 GHz	DC - 9 GHz
Voltage Rating	335 Volts RMS Max Continuous	500 Volts RMS Max Continuous	60 Volts RMS Max Continuous
Dielectric Withstanding Voltage	1000 VRMS Max	1500 VRMS Max	200 VRMS Max
Insulation Resistance	5000 MΩ Min	5000 MΩ Min	500 MΩ Min
Center Contact Resistance	3.0 mΩ Min	1.5 mΩ Min	20 mΩ Min
Outer Contact Resistance	2.0 mΩ Min	0.2 mΩ Min	10 mΩ Min

Environmental

Temperature Range	-65°C to +165°C	-65°C to +165°C	-40°C to +90°C
RoHS Compliance	Compliant with Exemption 6C	Compliant with Exemption 6C	Compliant with Exemption 6C

Mechanical

Mating Cycles	500 Min	500 Min	30 Min
Coupling Mechanism	Threaded	Threaded	Push-On Locking

Materials

Body	Brass, Gold-Plated	Brass, Nickel-Plated	Phosphor Bronze, Selectively Plated Gold Over Nickel
Contact	Beryllium Copper, Gold-Plated	Brass, Gold-Plated	Phosphor Bronze, Selectively Plated Gold Over Nickel
Insulator	PTFE	PTFE	PBT

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

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