



Overview

Amphenol RF offers 50 ohm tamper-resistance ultraminiature cable assemblies featuring the I-PEX MHF® 4 LK locking connector on one end. These pre-configured assemblies are available in multiple configurations designed on ultra flexible 1.37 mm micro-coax cable with compact SMA and reverse polarity SMA connectors. The combination of these durable connectors with this compact cable type assures reliability in demanding and rigorous environments.

MHF® 4 LK connectors are compatible with AMC4 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 such as wireless communications, portable electronics, test and measurement equipment, IoT and industrial modules, and medical devices.

Features and Benefits

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

Applications

- UAVs/Drones
- IoT Devices
- Military
- Smart Agricultural Equipment
- Communication Networks

MHF® 4 LK Cable Assemblies

Pre-Configured Vibration-Resistant 50 Ohm Assemblies

Ordering Information

MHF® 4 LK to SMA Cable Assembly on 1.37 mm cable

| Part Number | Description |
|-----------------|--|
| 095-902-600-XXX | MHF® 4 LK Right-Angle Plug to SMA Straight Bulkhead Jack IP67, 1.37 mm cable |

MHF® 4 LK to RP-SMA Cable Assembly on 1.37 mm cable

| Part Number | Description |
|-----------------|---|
| 095-902-598-XXX | MHF® 4 LK Right-Angle Plug to RP-SMA Straight Bulkhead Jack, 1.37 mm cable |
| 095-902-599-XXX | MHF® 4 LK Right-Angle Plug to RP-SMA Straight Bulkhead Jack IP67, 1.37 mm cable |

Note: 'XXX' denotes length code. See chart below for available lengths.

Standard Lengths Available

| Length Code | Length in Millimeters (Inches) |
|-------------|--------------------------------|
| 050 | 50 mm (1.969 in) |
| 100 | 100 mm (3.937 in) |
| 150 | 150 mm (5.906 in) |
| 200 | 200 mm (7.874 in) |
| 250 | 250 mm (9.843 in) |
| 300 | 300 mm (11.811 in) |
| 350 | 350 mm (13.780 in) |
| 400 | 400 mm (15.748 in) |

Amphenol RF

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

Amphenol® RF

Technical Specifications

Connectors

Electrical

| Interface | SMA | MHF® 4 LK |
|---------------------------------|---------------|--------------|
| Impedance | 50Ω | 50Ω |
| Frequency Range | DC - 6 GHz | DC - 9 GHz |
| Dielectric Withstanding Voltage | 1000 VRMS Max | 200 VRMS Max |
| Insulation Resistance | 5000 MΩ Min | 500 MΩ Min |
| Cable Assembly Max Frequency | 7.1 GHz | |

Environmental

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

Mechanical

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

Materials

| | | |
|-----------|-------------------------------|-----------------|
| Body | Brass, Gold-Plated | Phosphor Bronze |
| Contact | Beryllium Copper, Gold-Plated | Phosphor Bronze |
| Insulator | PTFE | PBT |

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

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