

Connectivity....for
Business-Critical Continuity

UMC Ultra Miniature Connectors

Product Catalog



JOHNSON[®]


EMERSON[™]
Network Power

Emerson's UMC Ultraminiature Coaxial Connectors and Cable Assemblies are the answer for quality, snap-on connections built to meet your cost and performance targets.

The UMC cable plugs and jack receptacles offer 2.0mm and 2.5mm maximum mated height options with DC to 6 GHz electrical performance.

All parts are RoHS compliant and mate with the Hirose U.FL series connectors.

Applications

1. Wireless LAN, Mini-PCI, and Hand-Held RF Devices
2. GSM, GPRS & CDMA Mobile Phones
3. PDA & Notebook Computer
4. GPS
5. Bluetooth
6. Microwave radio and measurement

Features

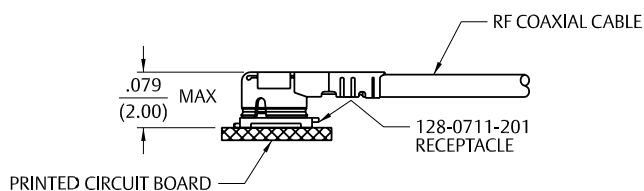
1. Excellent cost to performance ratio.
2. Ultra-low profile connections (2.0mm & 2.5mm max. mated height).
3. R/A plug to R/A plug cable assemblies on .81mm, 1.13mm, 1.32mm and 1.37mm cables.
4. UMC cables available in a variety of standard off-the-shelf lengths (from 50mm to 500mm).
5. Between-series cables available with std. & rev. polarity SMA plugs and Blukhead jacks or MMCX plugs on one end of the cable and the UMC plug on the other end.
6. Surface-mount jack receptacles available on tape and reel (2,500 per reel).
7. In-series UMC adapters available to support testing requirements.
8. All cabled plugs and jack receptacles are supplied with gold plated contacts and bodies.
9. UMC connectors mate with Hirose U.FL series connectors.

Table of Contents

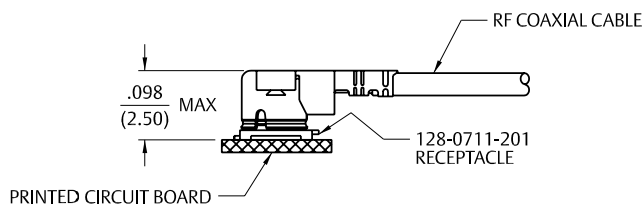
	PAGE
Product Specifications	2
UMC Cable Assembly	3
UMC MMCX Profile Cable Assembly	4
UMC SMA Cable Assembly	5
UMC SMA RP Cable Assembly	6
UMC Bare End Cable Assembly	7
UMC PCB Jack Assembly	8
UMC Accessories	9
Cross Reference	10

Product Specifications

Impedance	50 Ω (Nominal)
Temperature Range	-40°C to +90°C
Frequency Rating	0-6 GHz
VSWR	1.30 max (0-6 GHz)
Contact Resistance	20 m Ω max. (Center)
	20 m Ω max. (Outer, for plug)
	10 m Ω max. (Outer, for receptacle)
Withstanding Voltage	200 V AC
Insulation Resistance	500 M Ω min.
Durability	30 cycles
Holding Force (min.)	0.15 N (Female contact)



**LP Plug
(Low Profile Plug)**



**MP Plug
(Medium Profile Plug)**

Ultra Miniature Connectors Cable Assembly

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UMC Right Angle Cable Plug to UMC Right Angle Cable Plug



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Plug Mated Height	Connector B
415-0084-050	0.81 mm	50 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-100	0.81 mm	100 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-200	0.81 mm	200 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-300	0.81 mm	300 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG
415-0084-500	0.81 mm	500 mm	UMC LP PLUG	2.0 mm	UMC LP PLUG

UMC Right Angle Cable Plug to UMC Right Angle Cable Plug



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Plug Mated Height	Connector B
415-0085-050	0.81 mm	50 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-100	0.81 mm	100 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-150	0.81 mm	150 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-200	0.81 mm	200 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-250	0.81 mm	250 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-300	0.81 mm	300 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0085-500	0.81 mm	500 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-050	1.13 mm	50 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-100	1.13 mm	100 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-150	1.13 mm	150 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-200	1.13 mm	200 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-250	1.13 mm	250 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-300	1.13 mm	300 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0086-500	1.13 mm	500 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-050	1.32 mm	50 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-100	1.32 mm	100 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-150	1.32 mm	150 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-200	1.32 mm	200 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-250	1.32 mm	250 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-300	1.32 mm	300 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0087-500	1.32 mm	500 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-050	1.37 mm	50 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-100	1.37 mm	100 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-200	1.37 mm	200 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-300	1.37 mm	300 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG
415-0088-500	1.37 mm	500 mm	UMC MP PLUG	2.5 mm	UMC MP PLUG