

Connectivity....for  
Business-Critical Continuity

# *UMC Ultra Miniature Connectors*

## *Product Catalog*



**JOHNSON**<sup>®</sup>

  
**EMERSON**<sup>™</sup>  
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

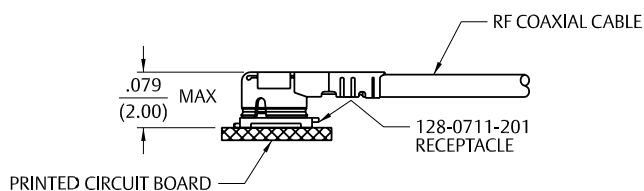
1. Excellent cost to performance ratio.
2. Ultra-low profile connections (2.0mm & 2.5mm max. mated height).
3. R/A plug to R/A plug cable assemblies on .81mm, 1.13mm, 1.32mm and 1.37mm cables.
4. UMC cables available in a variety of standard off-the-shelf lengths (from 50mm to 500mm).
5. Between-series 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

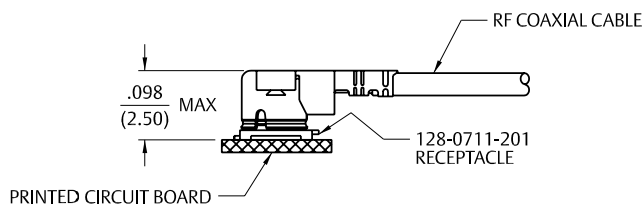
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## Product Specifications

Impedance	50 $\Omega$ (Nominal)
Temperature Range	-40°C to +90°C
Frequency Rating	0-6 GHz
VSWR	1.30 max (0-6 GHz)
Contact Resistance	20 m $\Omega$ max. (Center)
	20 m $\Omega$ max. (Outer, for plug)
	10 m $\Omega$ max. (Outer, for receptacle)
Withstanding Voltage	200 V AC
Insulation Resistance	500 M $\Omega$ 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

Connectivity...for  
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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

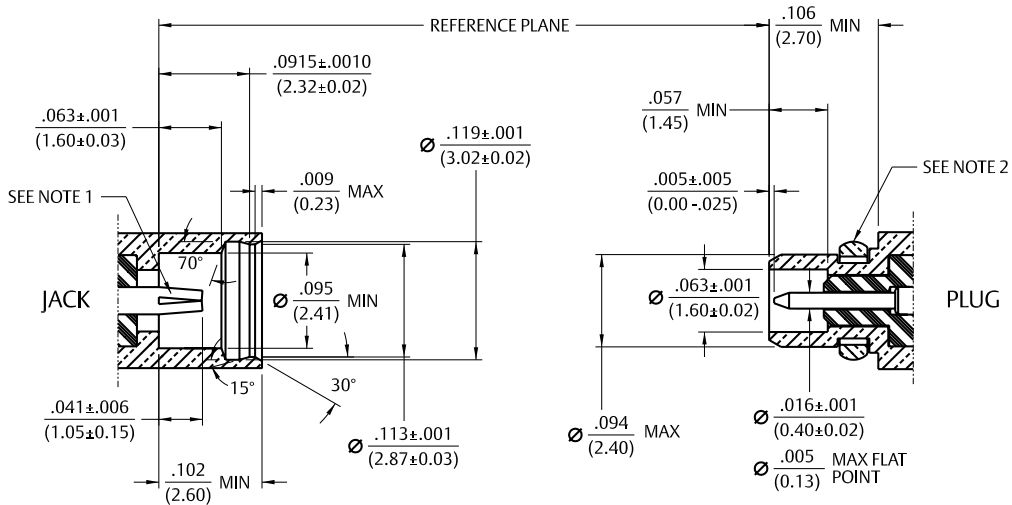
## UMC Right Angle Cable Plug to UMC Right Angle Cable Plug



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

NOTES

1. ID OF CONTACT TO MEET VSWR MATING CHARACTERISTICS AND CONNECTOR DURABILITY WHEN MATED WITH A DIA, .016±.001 MALE CONTACT.
2. MUST MEET THE FORCE TO ENGAGE AND DISENGAGE WHEN MATED WITH PART.



**Low Profile**



**UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0101-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	MMCX RA PLUG
415-0101-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	MMCX RA PLUG



**Medium Profile**

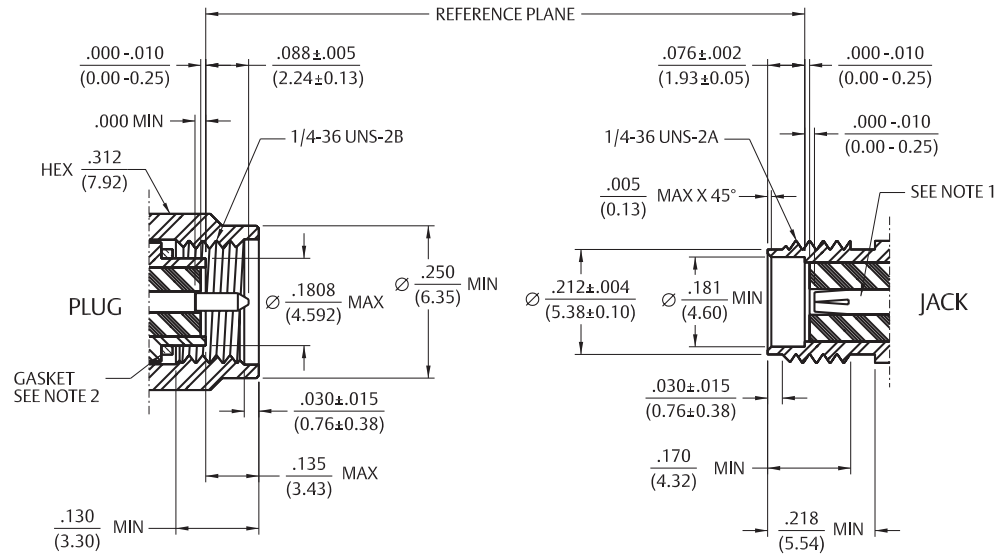


**UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0102-150	0.81 mm	150 mm	UMC MP PLUG	2.5 mm	MMCX RA PLUG
415-0102-250	0.81 mm	250 mm	UMC MP PLUG	2.5 mm	MMCX RA PLUG
415-0103-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	MMCX RA PLUG
415-0103-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	MMCX RA PLUG

NOTES

1. ID TO MEET VSWR, CONTACT RESISTANCE AND INSERTION WITHDRAWAL FORCES WHEN MATED WITH A DIA, .0355 - .0370 PIN.
2. GASKET IS NOT SUPPLIED WITH BRASS CONNECTORS.



**Low Profile**  
**UMC Right Angle Cable Plug to SMA Straight Crimp Plug**



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0089-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	SMA STR. CRIMP PLUG
415-0089-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	SMA STR. CRIMP PLUG



**Medium Profile**  
**UMC Right Angle Cable Plug to SMA Straight Crimp Plug**



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0090-150	0.81 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP PLUG
415-0090-250	0.81 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP PLUG
415-0091-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP PLUG
415-0091-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP PLUG

**Low Profile**  
**UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack**



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0095-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	SMA STR CR. BKHD. JACK
415-0095-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	SMA STR CR. BKHD. JACK



**Medium Profile**  
**UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack**

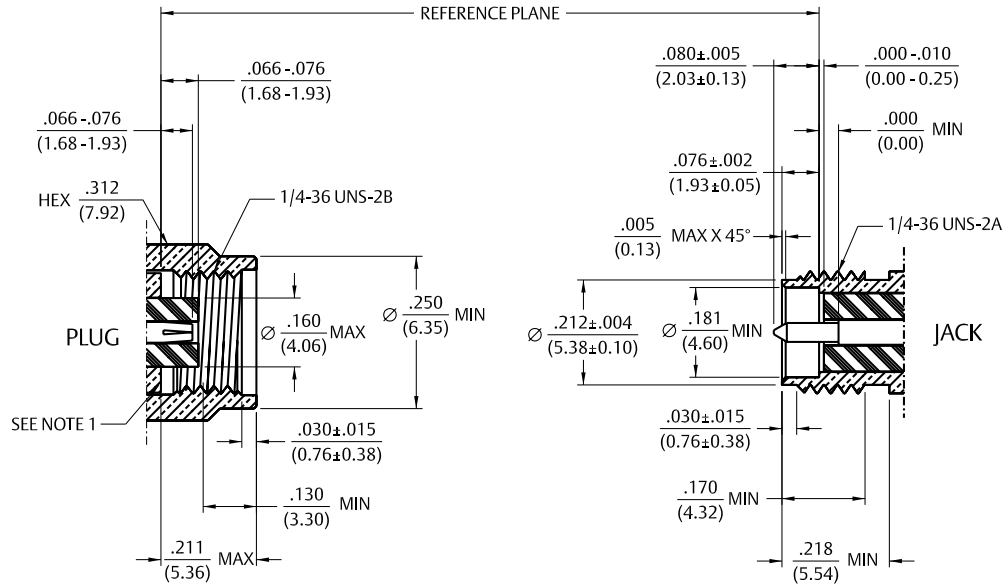


Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0096-150	0.81 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. JACK
415-0096-250	0.81 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. JACK
415-0097-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. JACK
415-0097-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. JACK

# Ultra Miniature Connectors SMA Reverse Polarity Cable Assembly

NOTES

1. ID TO MEET VSWR, CONTACT RESISTANCE AND INSERTION WITHDRAWAL FORCES WHEN MATED WITH A DIA. .0355 - .0370 PIN.



**Low Profile**



**UMC Right Angle Cable Plug to SMA Straight Crimp Reverse Polarity Plug**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0092-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	SMA STR. CRIMP RP PLUG
415-0092-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	SMA STR. CRIMP RP PLUG



**Medium Profile**



**UMC Right Angle Cable Plug to SMA Straight Crimp Reverse Polarity Plug**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0093-150	0.81 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP RP PLUG
415-0093-250	0.81 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP RP PLUG
415-0094-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP RP PLUG
415-0094-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR. CRIMP RP PLUG

**Low Profile**



**UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Rev. Polarity Jack**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0098-150	0.81 mm	150 mm	UMC LP PLUG	2.0 mm	SMA STR CR. BKHD. RP JACK
415-0098-250	0.81 mm	250 mm	UMC LP PLUG	2.0 mm	SMA STR CR. BKHD. RP JACK



**Medium Profile**



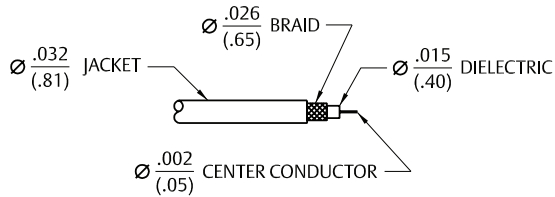
**UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Rev. Polarity Jack**

Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0099-150	0.81 mm	150 mm	UMC LP PLUG	2.5 mm	SMA STR CR. BKHD. RP JACK
415-0099-250	0.81 mm	250 mm	UMC LP PLUG	2.5 mm	SMA STR CR. BKHD. RP JACK
415-0100-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. RP JACK
415-0100-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	SMA STR CR. BKHD. RP JACK

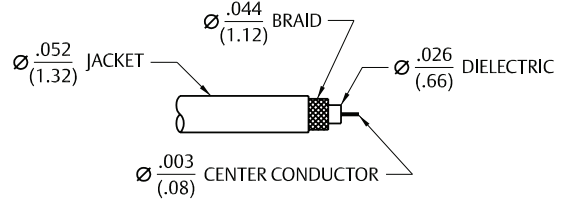
# Ultra Miniature Connectors SMA Bare Ends Assembly

Connectivity...for  
Business-Critical Continuity

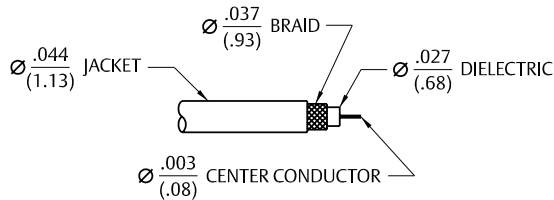
## 0.81 mm Coaxial Cable



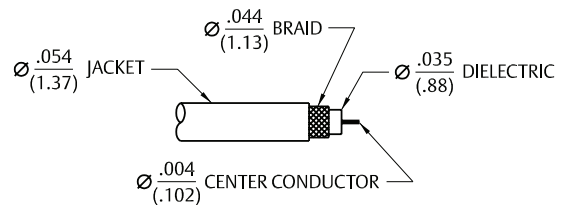
## 1.32 mm Coaxial Cable



## 1.13 mm Coaxial Cable



## 1.37 mm Coaxial Cable



### Low Profile UMC Right Angle Cable Plug to Bare End



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0104-150	.81 mm	150 mm	UMC LP PLUG	2.0 mm	BARE END
415-0104-250	.81 mm	250 mm	UMC LP PLUG	2.0 mm	BARE END

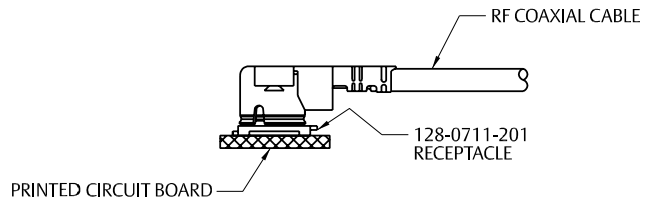
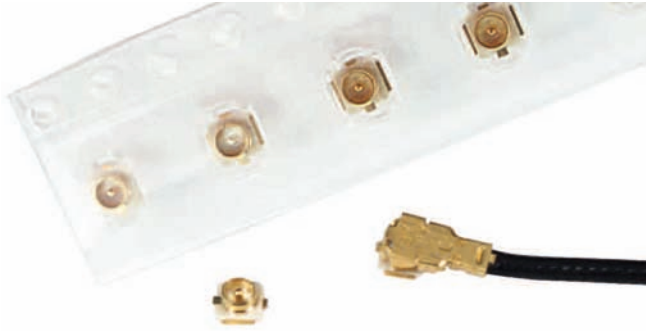
### Medium Profile UMC Right Angle Cable Plug to Bare End



Part No.	Teflon Coaxial Cable O.D.	Cable Length	Connector A	Height	Connector B
415-0105-150	.81 mm	150 mm	UMC MP PLUG	2.5 mm	BARE END
415-0105-250	.81 mm	250 mm	UMC MP PLUG	2.5 mm	BARE END
415-0106-150	1.13 mm	150 mm	UMC MP PLUG	2.5 mm	BARE END
415-0106-250	1.13 mm	250 mm	UMC MP PLUG	2.5 mm	BARE END
415-0107-150	1.32 mm	150 mm	UMC MP PLUG	2.5 mm	BARE END
415-0107-250	1.32 mm	250 mm	UMC MP PLUG	2.5 mm	BARE END
415-0108-150	1.37 mm	150 mm	UMC MP PLUG	2.5 mm	BARE END
415-0108-250	1.37 mm	250 mm	UMC MP PLUG	2.5 mm	BARE END

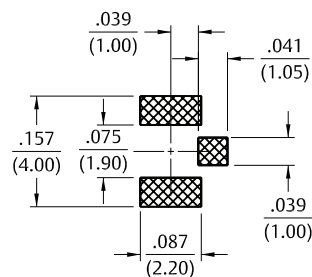
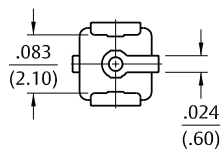
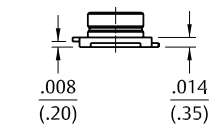
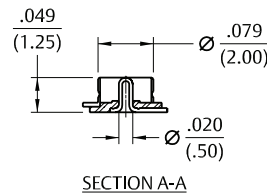
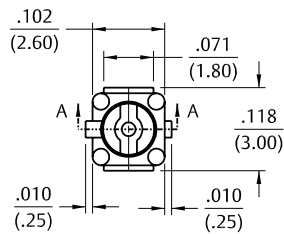
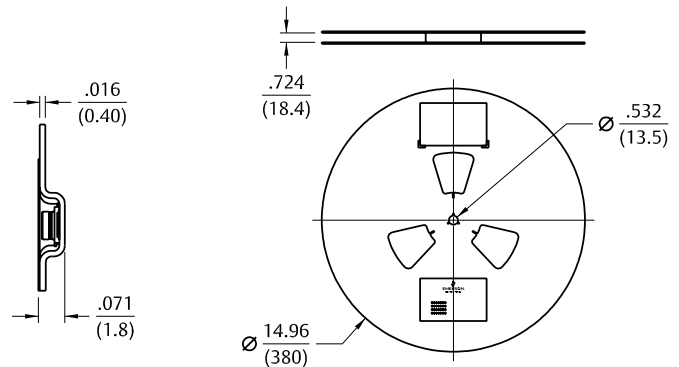
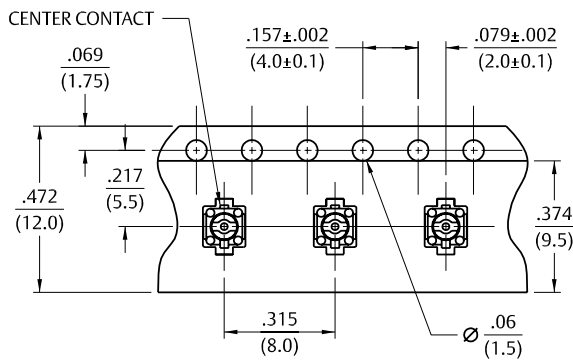


## Straight Jack Receptacle - Surface Mount



Part No.	Tape & Reel
128-0711-201	2,500/REEL

## Tape and Reel



RECOMMENDED PCB PATTERN

## SMA Conversion Adapter for Mating UMC Plugs (SMA Plug to UMC Jack)



Part No.

134-1019-361

Fig. 1

## UMC Separation Key

FOR EXTRACTION  
FROM A COUPLED CONDITION.



Part No.

128-0000-901

## SMA Conversion Adapter for Surface Mt. Jack Receptacle 128-0711-201 (SMA Jack to UMC Plug)



Part No.

134-1019-371

Fig. 2

## Inspection Tool for Cable Assy.



Part No.

134-1019-381

Fig. 3

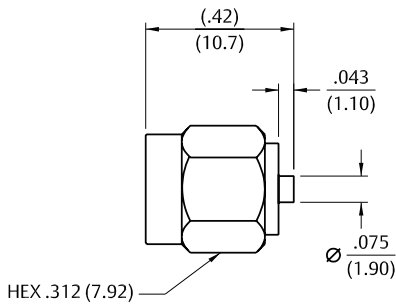


Fig. 1

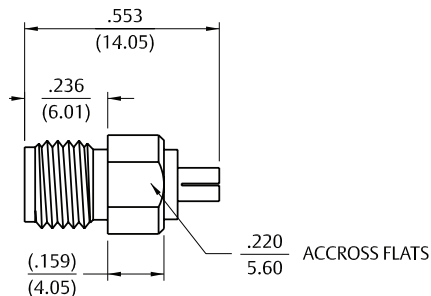


Fig. 2

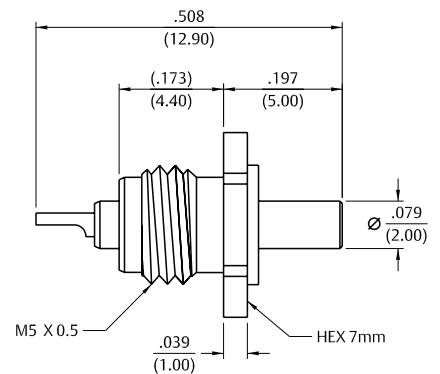


Fig. 3

**JOHNSON P/N**

128-0711-201  
415-0084-050  
415-0084-100  
415-0084-150  
415-0084-200  
415-0084-250  
415-0084-300  
415-0084-500  
415-0085-050  
415-0085-100  
415-0085-150  
415-0085-200  
415-0085-250  
415-0085-300  
415-0085-300  
415-0086-050  
415-0086-100  
415-0086-150  
415-0086-200  
415-0086-250  
415-0086-300  
415-0086-500  
415-0087-050

**HIROSE**

U.FL-R-SMT(10)  
U.FL-2LP(V)-04N1-A-50  
U.FL-2LP(V)-04N1-A-100  
U.FL-2LP(V)-04N1-A-150  
U.FL-2LP(V)-04N1-A-200  
U.FL-2LP(V)-04N1-A-250  
U.FL-2LP(V)-04N1-A-300  
U.FL-2LP(V)-04N1-A-500  
U.FL-2LP-04N2-A-50  
U.FL-2LP-04N2-A-100  
U.FL-2LP-04N2-A-150  
U.FL-2LP-04N2-A-200  
U.FL-2LP-04N2-A-250  
U.FL-2LP-04N2-A-300  
U.FL-2LP-04N2-A-500  
U.FL-2LP-068N2-A-50  
U.FL-2LP-068N2-A-100  
U.FL-2LP-068N2-A-150  
U.FL-2LP-068N2-A-200  
U.FL-2LP-068N2-A-250  
U.FL-2LP-068N2-A-300  
U.FL-2LP-068N2-A-500  
U.FL-2LP-066J2-A-50

**JOHNSON P/N**

415-0087-100  
415-0087-150  
415-0087-200  
415-0087-250  
415-0087-300  
415-0087-500  
415-0088-050  
415-0088-100  
415-0088-150  
415-0088-200  
415-0088-250  
415-0088-300  
415-0088-500  
415-0104-150  
415-0104-250  
415-0105-150  
415-0105-250  
415-0106-150  
415-0106-250  
415-0107-150  
415-0107-250  
415-0108-150  
415-0108-250

**HIROSE**

U.FL-2LP-066J2-A-100  
U.FL-2LP-066J2-A-150  
U.FL-2LP-066J2-A-200  
U.FL-2LP-066J2-A-250  
U.FL-2LP-066J2-A-300  
U.FL-2LP-066J2-A-500  
U.FL-2LP-088K2T-A-50  
U.FL-2LP-088K2T-A-100  
U.FL-2LP-088K2T-A-150  
U.FL-2LP-088K2T-A-200  
U.FL-2LP-088K2T-A-250  
U.FL-2LP-088K2T-A-300  
U.FL-2LP-088K2T-A-500  
U.FL-LP(V)-04N1-A-150  
U.FL-LP(V)-04N1-A-250  
U.FL-LP-04N2-A-150  
U.FL-LP-04N2-A-250  
U.FL-LP-068N2-A-150  
U.FL-LP-068N2-A-250  
U.FL-LP-066J2-A-150  
U.FL-LP-066J2-A-250  
U.FL-LP-088K2T-A-150  
U.FL-LP-088K2T-A-250

**UMC Family : UMC MP, LP, ULP**  
**Competition with other Supplier's Product**

Model Name	Emerson / Johnson			HIROSE		
	UMC MP	UMC LP	UMC ULP	U.FL-LP-040/066	U.FL-LP(V)-040	W.FL-LP-040
Mated Height (Max.)	2.5/2.7mm	2.1mm	1.6mm	2.5mm	2.0mm	1.55mm
Termination Style	Mechanical Termination			Soldering		
Plating of Shell	Gold	Gold	Gold	Silver	Silver	Silver
Plating of Contact	Gold	Gold	Gold	Gold	Gold	Gold
Applicable Coaxial Cable (Diameter)	AWG30(1.37mm) AWG32(1.32mm) AWG32(1.13mm) AWG36(0.81mm)	AWG36(0.81mm)	AWG36(0.81mm)	AWG32(1.32mm) AWG36 (0.81mm)	AWG36(0.81mm)	AWG36(0.81mm)
Frequencies	DC to 6GHz			DC to 6GHz		

**UMC Compatibility Table Johnson Vs HIROSE**

UMC Family	Mated Height (mm)	AWG (O.D. mm)	Emerson / Johnson		HIROSE	
			Plating (Contact / Ground)	Part No.	Plating (Contact / Ground)	Product No.
UMC Receptacle	2.7/2.5/2.1	N/A	Gold	128-0711-201	Gold/Silver	U.FL-R-SMT (10)
UMC MP Plug	2.5	30 (1.37)	Gold	415-0088-xxx	Gold/Silver	U.FL-LP-088
UMC MP Plug	2.7/2.5	32 (1.32)	Gold	415-0087-xxx	Gold/Silver	U.FL-LP-066
		32 (1.13)	Gold	415-0086-xxx	Gold/Silver	U.FL-LP-066
		36 (0.81)	Gold	415-0085-xxx	Gold/Silver	U.FL-LP-040
UMC LP Plug	2.1	36 (0.81)	Gold	415-0084-xxx	Gold/Silver	U.FL-LP(V)-040
UMC ULP Plug	1.6	N/A	Gold	415-0109-xxx	Gold/Silver	CL-331-0482-6-10

## Emerson Network Power Connectivity Solutions

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## About Emerson Network Power Connectivity Solutions

Emerson Network Power Connectivity Solutions, an Emerson business, serves the needs of wireless communications, telephony and data networks, CATV, security systems, health care and industrial facilities with a full spectrum of RF and Microwave connectivity products. For more information, visit [www.EmersonNetworkPower.com/Connectivity](http://www.EmersonNetworkPower.com/Connectivity).

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Emerson (NYSE: EMR), based in St. Louis, is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2006 were \$20.1 billion. For more information, visit [www.gotoemerson.com](http://www.gotoemerson.com).

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