

UMCC — Ultraminiature Coax Connector and Cable Assembly Series (Continued)

Cable Information

Material and Finish

Center Conductor —

0.8 mm Dia. — Silver plated copper
1.32 mm Dia. — Silver plated copper
1.37 mm Dia. — Silver plated copper

Center Conductor Size —

0.8 mm Dia. — Stranded 7/0.05 mm
1.32 mm Dia. — Stranded 7/0.08 mm
1.37 mm Dia. — Stranded 7/0.10 mm

Dielectric —

0.8 mm Dia. — FEP or PFA
1.32 mm Dia. — FEP
1.37 mm Dia. — FEP

Dielectric Size —

0.8 mm Dia. — 0.4 mm OD
1.32 mm Dia. — 0.66 mm OD
1.37 mm Dia. — 0.83 mm OD

Shield —

0.8 mm Dia. — Silver plated copper braid
1.32 mm Dia. — Double SPL braid
1.37 mm Dia. — Silver plated copper braid

Shield Coverage —

0.8 mm Dia. — > 90%
1.32 mm Dia. — > 90% (each braid layer)
1.37 mm Dia. — > 90%

Jacket —

0.8 mm Dia. — FEP or PFA
1.32 mm Dia. — FEP
1.37 mm Dia. — FEP

Jacket Size —

0.8 mm Dia. — 0.80 mm OD
1.32 mm Dia. — 1.32 mm OD
1.37 mm Dia. — 1.37 mm OD

Mechanical Characteristics

Minimum Bend Radius —

0.8 mm Dia. — 5 mm single bend,
30 mm continuous flexing
1.32 mm Dia. — 5 mm single bend,
30 mm continuous flexing
1.37 mm Dia. — 5 mm single bend,
30 mm continuous flexing

Electrical Characteristics

Impedance (Ohms) —

0.8 mm Dia. — 50 ± 2
1.32 mm Dia. — 50 ± 2
1.37 mm Dia. — 50 ± 2

Velocity of Propagation —

0.8 mm Dia. — 70%
1.32 mm Dia. — 70%
1.37 mm Dia. — 70%

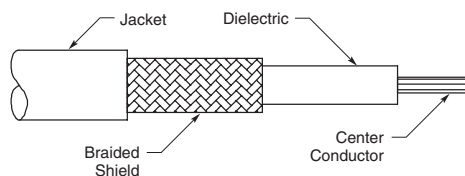
CC Resistance (Ohms/KM) —

0.8 mm Dia. — 1450
1.32 mm Dia. — 560
1.37 mm Dia. — 354

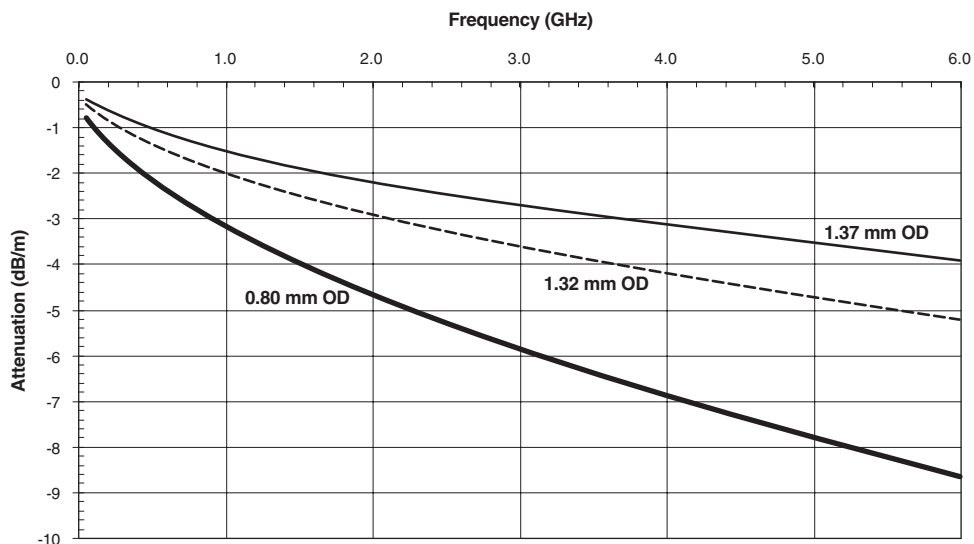
Voltage Rating —

0.8 mm Dia. — 60 VAC
1.32 mm Dia. — 60 VAC
1.37 mm Dia. — 60 VAC

Attenuation — See chart

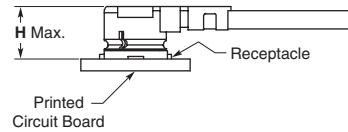


UMCC Cable Attenuation



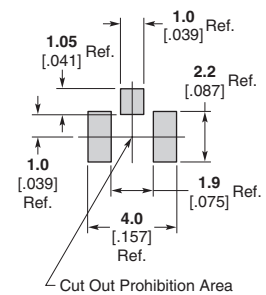
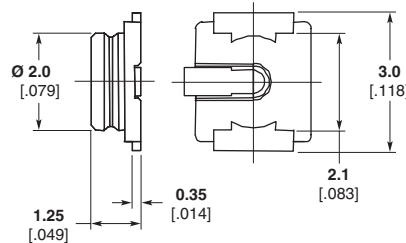
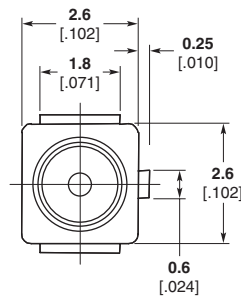
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PCB Receptacles — Style A



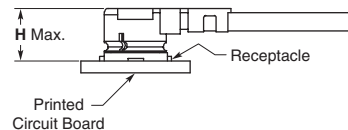
Style	Mates with UMCC Connector Type	Mated Height (H)	Description	Part Number
A	II / III	2.00–2.50 .079–.098	UMCC PCB Receptacle, 2500 Pc Reel	1566230-1
A	II / III	2.00–2.50 .079–.098	UMCC PCB Receptacle, 500 Pc Bag	1566230-2

UMCC PCB Receptacle



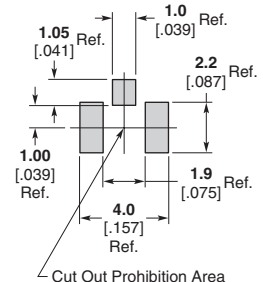
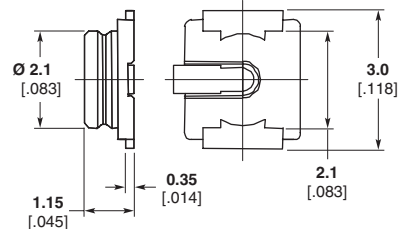
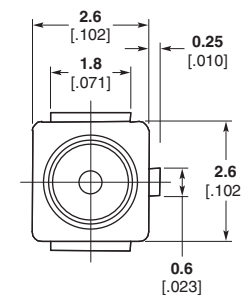
Recommended PC Board Layout

PCB Receptacles — Style B



Style	Mates with UMCC Connector Type	Mated Height (H)	Description	Part Number
B	I	2.00 .079	UMCC PCB Receptacle, 2500 Pc Reel	1775146-1
B	I	2.00 .079	UMCC PCB Receptacle, 500 Pc Bag	1775146-2

UMCC PCB Receptacle

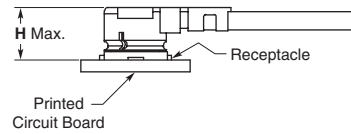


Recommended PC Board Layout

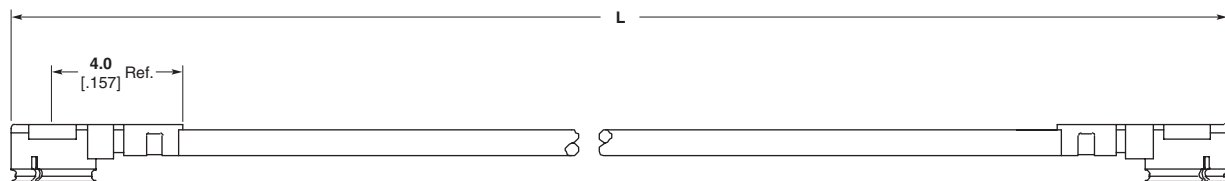
Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

UMCC — Ultraminiature Coax Connector and Cable Assembly Series (Continued)

Standard Double Ended Cable Assemblies



UMCC Connector Type	Mated Height (H)	Cable Dia.	Length L	Mates with PCB Rcpt.	Part Number
I	2.00 .079	0.80 .031	100.00 3.937	Style B	1750109-1
	2.00 .079	0.80 .031	200.00 7.874	Style B	1750109-2
II	2.00 .079	0.80 .031	100.00 3.937	Style A	1750108-1
	2.00 .079	0.80 .031	200.00 7.874	Style A	1750108-2
III	2.50 .098	0.80 .031	100.00 3.937	Style A	1750107-1
	2.50 .098	0.80 .031	200.00 7.874	Style A	1750107-2
	2.50 .098	1.32 .052	100.00 3.937	Style A	1750107-3
	2.50 .098	1.32 .052	200.00 7.874	Style A	1750107-4
	2.50 .098	1.37 .054	100.00 3.937	Style A	1750107-5
	2.50 .098	1.37 .054	200.00 7.874	Style A	1750107-6



Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

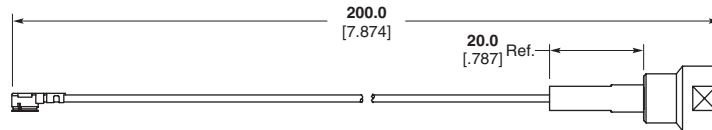
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Interseries Cable Assemblies

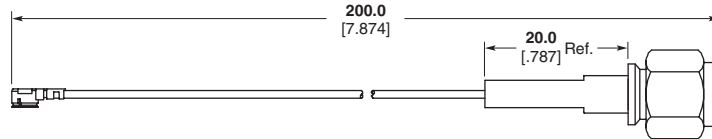


UMCC Connector Type	Mated Height (H)	Cable Dia.	Length	Description	Part Number
III	2.50 .098	1.37 .054	200.00 7.874	UMCC Plug to FME Plug	1750110-2
	2.50 .098	1.37 .054	200.00 7.874	UMCC Plug to SMA Plug	1750110-4
	2.50 .098	1.37 .054	200.00 7.874	UMCC Plug to SMA Bulkhead Jack	1750110-6
	2.50 .098	1.37 .054	200.00 7.874	UMCC Plug to MCX Right-Angle Plug	1750110-8
	2.50 .098	1.37 .054	200.00 7.874	UMCC Plug to MMCX Right-Angle Plug	1-1750110-0
II	2.00 .079	0.80 .031	200.00 7.874	UMCC Plug to MCX Right-Angle Plug	1750110-7
	2.00 .079	0.80 .031	200.00 7.874	UMCC Plug to MMCX Right-Angle Plug	1750110-9

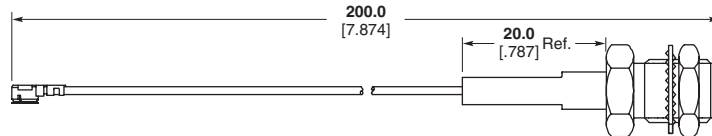
UMCC to FME Plug



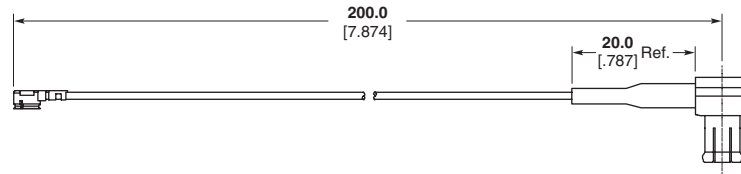
UMCC to SMA Plug



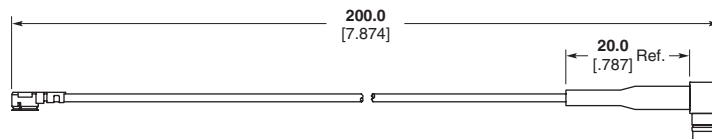
UMCC to SMA Bulkhead Jack



UMCC to MCX Right-Angle Plug



UMCC to MMCX Right-Angle Plug



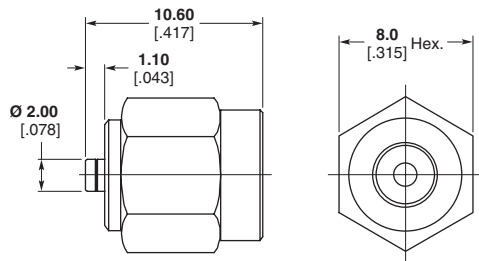
Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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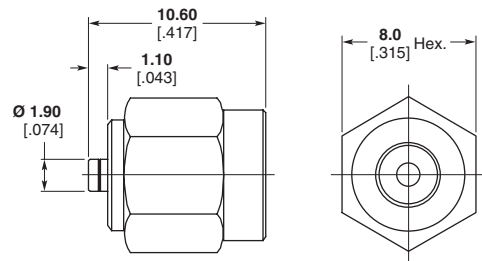
Adapters



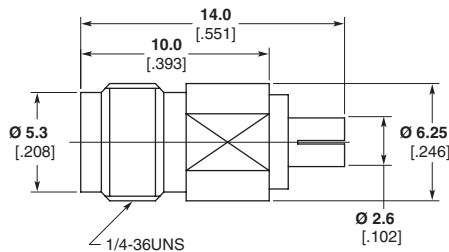
UMCC Connector Type	Description	Part Number
I	UMCC Jack Receptacle to SMA Plug	1775228-1
	UMCC Plug to SMA Jack	1775229-1
II / III	UMCC Jack Receptacle to SMA Plug	1775227-1
	UMCC Plug to SMA Jack	1775230-1



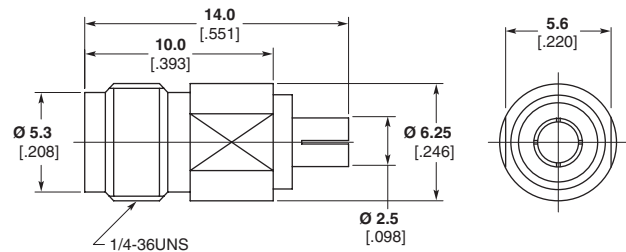
Part Number 1775228-1



Part Number 1775227-1

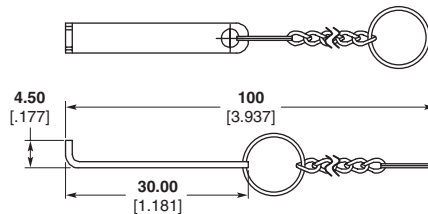


Part Number 1775229-1



Part Number 1775230-1

Extraction Tool Part Number 1775231-1

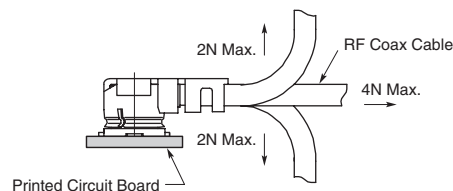
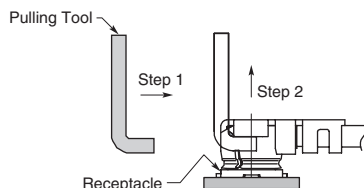


Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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Application Notes

Mating/Unmating — Cable Plugs



Mating/Unmating

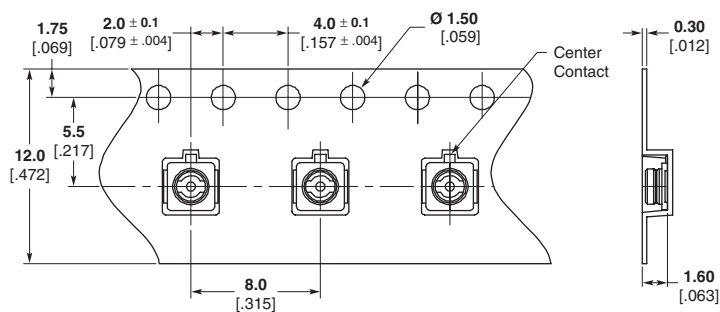
1. To mate the connectors, insert the cable plug into the SMT receptacle, making sure the cable plug is as vertical as possible and the mating axis of both connectors are aligned. Do not insert on an extreme angle.
2. To unmate the connectors, insert the end portion of the extraction tool under the SMT receptacle connector flanges and pull off vertically in the direction of the mating axis.

Permissible Load

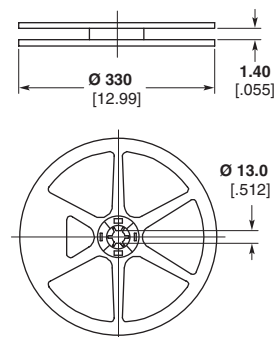
Do not apply excessive load to the cable after the connectors are mated. Please refer to the permissible loads indicated in the figure to the right.

Tape and Reel Packaging Specifications

Standard Receptacles



Dimensions of Taping



Dimensions Reel (2500 Pieces/Reel)

Soldering Profile — SMT Receptacle

Recommended Temperature Profile (Reference)

1. The preferred technique for mounting the SMT Receptacle package is to reflow solder the device onto a PCB (Printed Circuit Board).
2. The maximum temperature for the lead of PCB surface does not exceed 240°C.
3. The right reflow soldering profile is for reference and will modify under individual different conditions.

Hand Soldering (Reference only)

1. Soldering iron: The maximum temperature is 240°C.
2. Soldering period: within 5 seconds.

