KJ COMTECH

Our **MCX** 75Ω connectors are derived from the MCX 50Ω series but have a characteristic impedance of 75Ω They offer outstanding electrical properties up to 6 GHz and allow the transmission of digital signals with high bit rates.

Series MCX-75Ω

Microminiature Coaxial Connector

Technical Data

Material Data

Cable Connector

Solder connector

PCB Connector

Microminiature Coaxial Connector

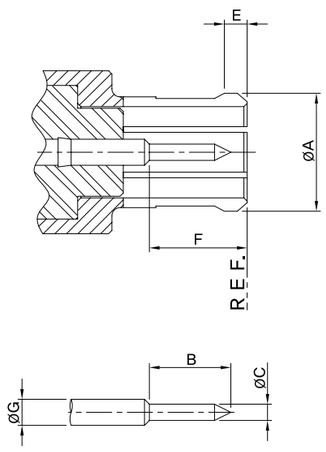
Description

Our MCX 75Ω connectors are derived from the MCX 50Ω series but have a characteristic impedance of 75Ω They offer outstanding electrical properties up to 6 GHz and allow the transmission of digital signals with high bit rates.

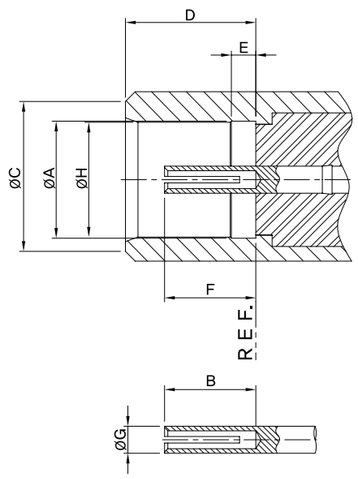
Contents

Interface Dimensions

Plug (Male)



Jack (Female)



Interface Dimensions in mm/inch

	Plug (Male)		Jack (Female)	
	Min.	Max.	Min.	Max.
A	3.72 / 0.146	3.80 / 0.150	3.60 / 0.142	3.70 / 0.146
B	2.49 / 0.098	2.59 / 0.102	2.80 / 0.110	-
C	0.48 / 0.019	0.53 / 0.021	3.75 / 0.148	3.85 / 0.152
D	-	-	4.00 / 0.157	4.12 / 0.162
E	0.70 / 0.028	0.75 / 0.030	0.75 / 0.030	0.85 / 0.033
F	2.80 / 0.110	3.20 / 0.126	2.30 / 0.091	2.80 / 0.110
G	0.83 / 0.033	-	0.83 / 0.033	-
H	-	-	3.42 / 0.135	3.48 / 0.137

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Technical Data

Requirement / Specification

Requirement	Specification
ELECTRICAL DATA	**TEST REQUIREMENTS**
Impedance	75Ω
Frequency range	DC ····· 6GHz
Dielectric withstanding voltage (at sea level)	500 V rms, 50 Hz
Working voltage (at sea level)	≦ 170 V rms, 50 Hz
Insulation resistance	≧ 10^3 MΩ
Contact resistance	
- Center contacts	≦ 5.0 mΩ
- Outer contacts	≦ 2.5 mΩ
MECHANICAL DATA	**TEST REQUIREMENTS**
Engagement force	≦ 25 N / 5.6 lbs
Disengagement force	8 N ~ 20 N / 1.8 lbs ~ 4.5 lbs
Contact captivation	≧ 10 N / 2.3 lbs
Durability (matings)	≧ 500

Material Data

Connector Part	Material		Plating
	Male	Female	
PIN	Brass	Beryllium-Copper	Gold
INSULATOR	PTFE	PTFE	-
BODIES	Brass	Brass	Gold or White-Bronze
JACK	-	Beryllium-Copper	Gold or White-Bronze

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Cable Connector

Straight Cable Plugs (male)

For Flexible cable
Cable entry crimp
Centre contact soldered

RG179

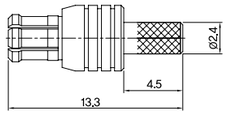

Fig.1

Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Pipe		
1	MCX75-PC-179	K313-085-000	CN1311X04-001-1/1	X04 RG179	Gold	Gold	Gold		

Right Angle Cable Plugs (male)

For Semirigid cable
Cable entry soldered & crimp
Centre contact soldered

1672A

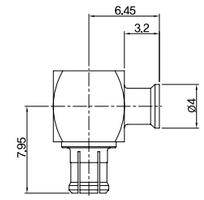

Fig.1

RG179

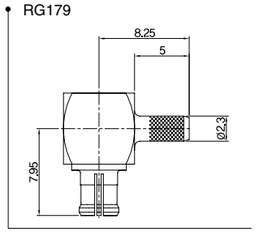

Fig.2

Fig	Type	Code		Cable Goup (example)	Plating			AS-In	Note
		Old Code	New Code		Pin	Body	Pipe		
1	MCX75-LPS-1672A	K313-114-002	CN1331S06-001-1/1	1672A	Gold	Gold	Gold		
2	MCX75-LPC-179	K313-114-000	CN1331X04-001-1/1	X04 RG179	Gold	Gold	Gold		

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Solder Connector

Receptacle Jack(female)

Bulkhead mounted

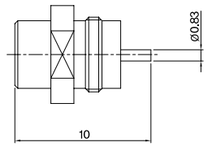

Fig.1

Fig	Type	Code		Plating			Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body	Coupling			
1	MCX75-J-BR	K313-311-000	CN1326000-001-1/1	Gold	Gold	Gold	ML10		

PCB Connector

Straight PCB Jacks (female)

With stand off

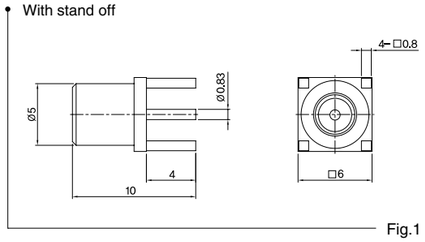

Fig.1

With stand off

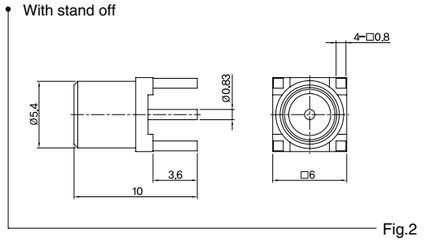

Fig.2

Fig	Type	Code		Plating			Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body	Coupling			
1	MCX75-J-4R-R	K313-427-000	CN1351000-001-1/1	Gold	Gold	Gold	ML8		
2	MCX75-J-4R-R	K313-427-001	CN1351000-002-1/1	Gold	Gold	Gold			

Right Angle PCB Jacks (female)

With stand off

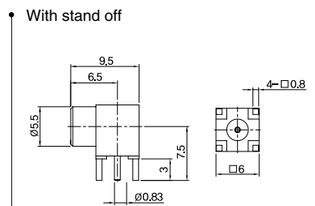

fig.1

Fig	Type	Code		Plating			Mounting Hole	AS-In	Note
		Old Code	New Code	Pin	Body	Coupling			
1	MCX75-LJ-4R-R	K313-666-000	CN1353000-001-1/1	Gold	Gold	Gold	ML8		

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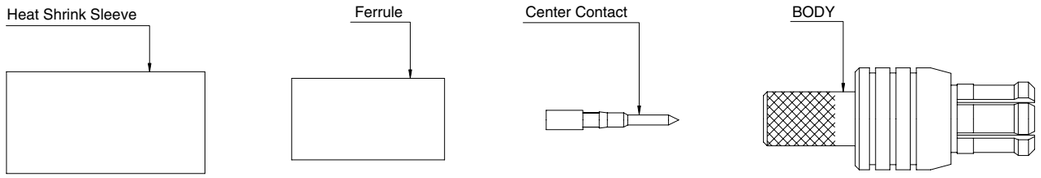
STANDARD CRIMP

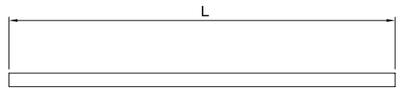


CONNECTORS

- K313-082
- K313-083
- K313-084
- K313-085
- K313-313
- K313-214

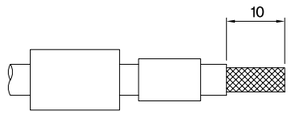
1. Cut the cable as much as required.

Step 1.



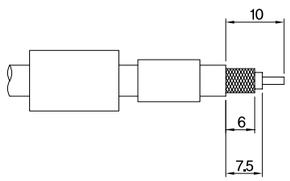
2. Insert the ferrule and the shrink sleeve into the cable and strip off the outer seath.

Step 2.



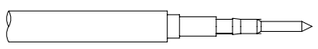
3. Strip off the out conductor and center conductor as shown in the diagram.

Step 3.



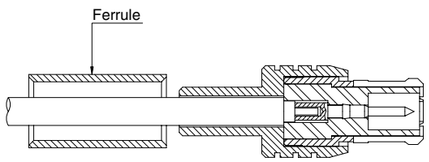
4. After Preparing the center conductor to solder, insert the center contact and solder.

Step 4.



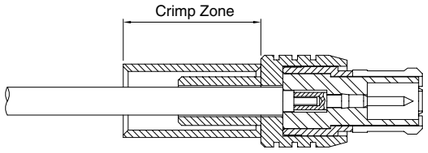
5. After inserting the center contact and the dielectric core of the cable into the body to be wrapped with the above portion of the body, push the Ferrule into above the outer conductor and crimp with the crimp tool.

Step 5.



6. Push the meat shrink sleeve to the above of the ferrule crimped and contract by heating.

Step 6.



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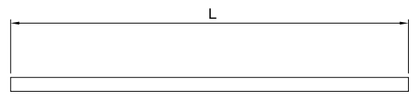
SEMI-RIGID CABLE

CONNECTORS

- K313-081
- K313-215

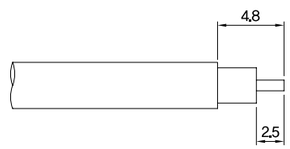
1. Cut the semi-rigid cable as much as required.

Step 1.



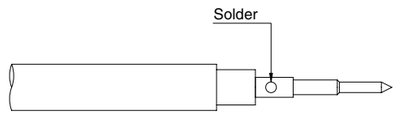
2. Strip off the cover of the table jacket and dielec tric core & center conductor according to the reguired as shown in the diagram.

Step 2.



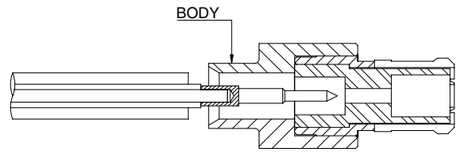
3. Put center contact in the center conductor and then solder it to the solder point.

Step 3.



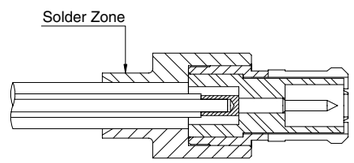
4. Insert the cable into the body.

Step 4.



5. Wipe off flux in the solder zone section.

Step 5.



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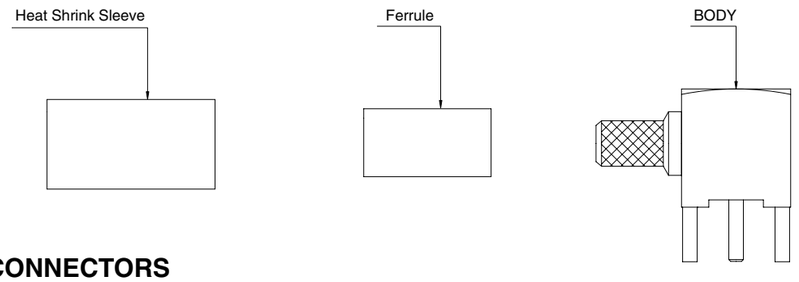
RIGHT ANGLE CRIMP

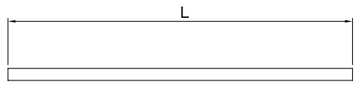


CONNECTORS

- K313-110
- K313-111
- K313-113
- K313-114
- K313-966
- K313-988

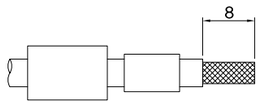
1. Cut the cable as much as required.

Step 1.



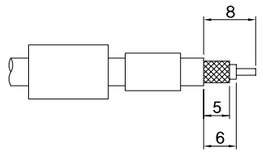
2. Insert the ferrule and heat shrink sleeve into the cable and tacke off the outer seath.

Step 2.



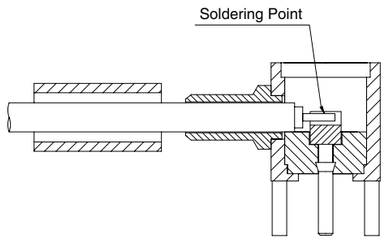
3. After stripping off the out conductor and the inner conductor as shown in the diagram, prepare the Inner conductor to solder.

Step 3.



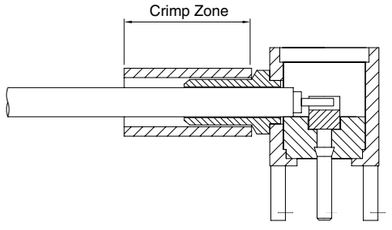
4. Insert the cable into the body and solder fixing exactly the Inner conductor to the solder point.

Step 4.



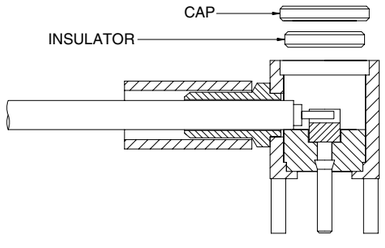
5. Insert the ferrule and crimp with the crimp too. After doing this, contract the heat shrimk sleeve.

Step 5.



6. Insert the Insulator in the body and close the cap.

Step 6.



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