



**THE DATASHEET OF
UM-QP-1.5WCR3A(40)**



Shell	Brass	Gold plating
Male contact	Brass	Gold plating
Female contact	Beryllium copper	Gold plating
Insulation	Tetrafluoride resin	

Contact resistance	5mΩ or less (at 1A DC)
Insulation resistance	1000MΩ or more at 500V DC
Withstand voltage	500V AC (rms) for 1 minute
Characteristic impedance	50Ω
Voltage standing wave ratio	1.2 or less at DC ~ 1000MHz

UM-P plugs

HRS No.	Part No.	Applicable cable	A	φ B	Shape
* 318-0199-0-40	UM-QP-1.5VC3A40	1.5D-2V	18.8	1.8	Fig.4
* 318-0176-0-40	UM-QP-1.5MCR3A40	1.5D-2W	18.8	1.8	Fig.4
* 318-0164-0-40	UM-QP-2.5CR3A40	2.5D-2V	21	2.8	Fig.4

* Center contact fix type

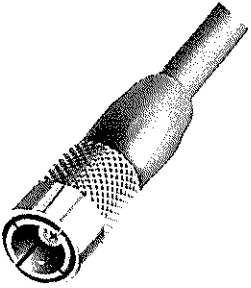
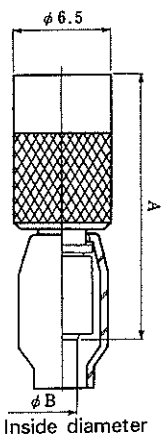


Fig.4



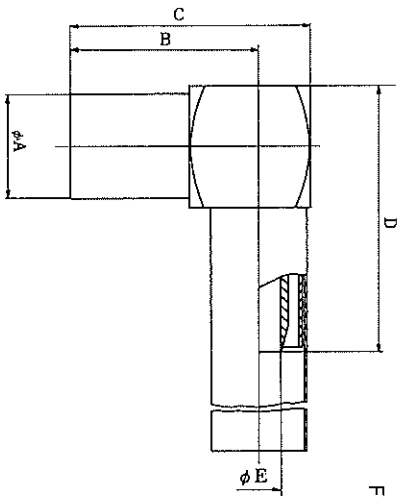
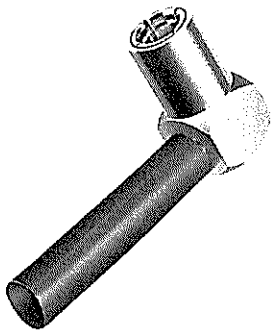
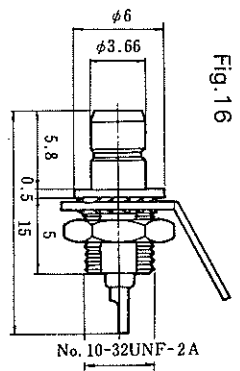


Fig.7

HRS No.	Part No.	Applicable cable	A	B	C	D	ϕE	Shape
318-0162-5-40	UM-QLP-1.5-6(40)	1.5D-2V	6.3	10.4	13.3	14.1	1.8	Fig.7
318-0163-8-40	UM-QLP-1.5W-6(40)	1.5D-2W	6.3	10.4	13.3	14.1	1.8	Fig.7



Fig. 16



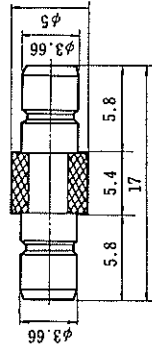
UM SERIES RF CO-AXIAL CONNECTORS

UM-A linear adapters



Fig.18

HRS No.	Part No.
CL318-0012-2-41	UM-OA-JJ(41)



Receptacles (type for mounting printed circuit boards)

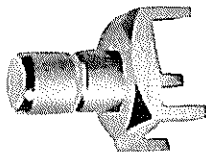
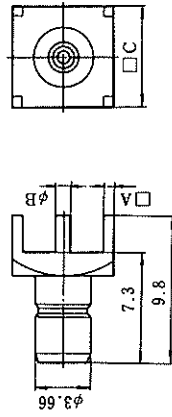
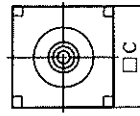


Fig.19



HRS No.	Part No.	A	B	C
CL318-0032-0-40	UM-R-PC(40)	0.7	1	6.7
CL318-0054-2-40	UM-R-PC-1(40)	0.6	0.8	5.7
CL318-0067-4-40	UM-R-PC-7(40)	0.6	1	6.5

* Standard product



L-type receptacle (type for mounting printed circuit boards)

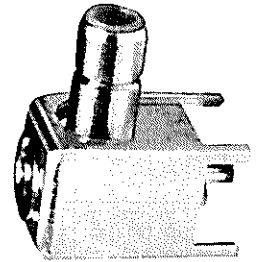
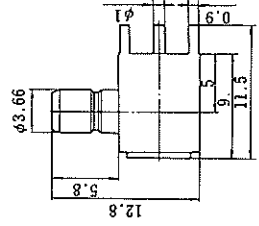


Fig.20



HRS No.	Part No.	Sharp	Remarks
CL318-0033-2-40	UM-LR-PC(40)	Fig.20	
CL318-0150-6-40	UM-LR-PC-4(40)	Fig.21	

* Standard product

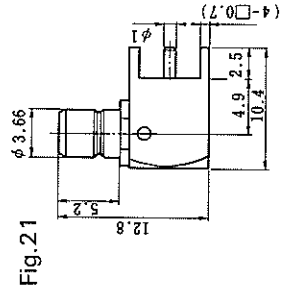
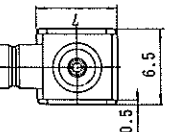
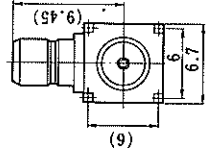


Fig.21



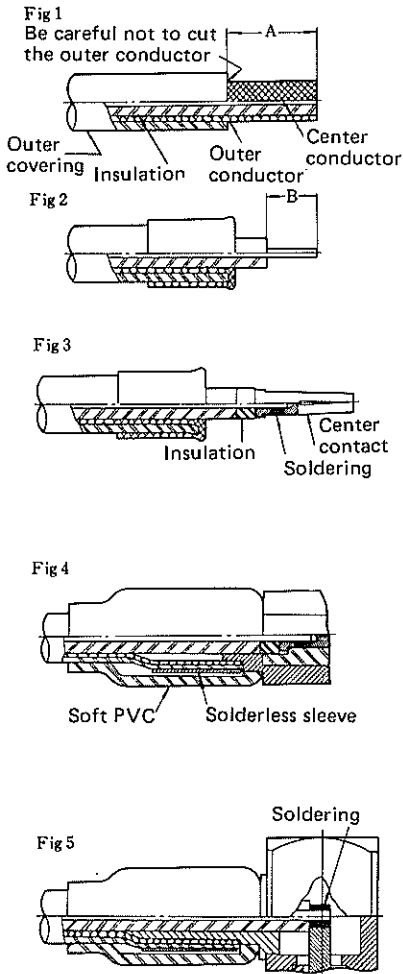
L-shaped plug	UM-QLP-1.5-6(40)	318-0162-5-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-QLP-1.5W-6(40)	318-0163-8-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Receptacle	UM-QR(40)	318-0002-9-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-QR(41)	318-0002-9-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-QR-1(40)	318-0011-0-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-QR-1(41)	318-0011-0-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-QA-JJ(40)	318-0012-2-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adapter	UM-OA-JJ(41)	318-0012-2-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-R-PC(41)	318-0032-0-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Receptacle for PC board	UM-R-PC(40)	318-0032-0-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-R-PC-1(41)	318-0054-2-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-R-PC-7(40)	318-0067-4-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-LR-PC(41)	318-0033-2-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-LR-PC(40)	318-0033-2-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-LR-PC-4(40)	318-0150-6-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-PR-PC(41)	318-0036-0-41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plug receptacle	UM-PR-PC(40)	318-0036-0-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	UM-PR-PC-1(40)	318-0118-3-40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

UM SERIES RF CO-AXIAL CONNECTORS

Connecting methods

Solderless connecting system

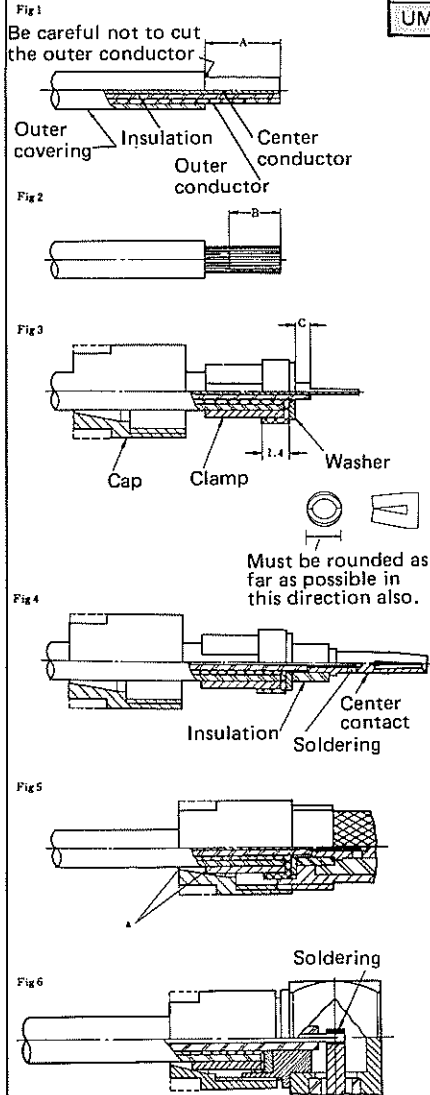
Part No.	A	B
UM-QP -1.5	4.7	2.7
UM-QLP-1.5	4.7	1.1
UM-QJ -1.5	4.7	2.7
UM-QPJ-1.5	4.7	2.7



1. Cut the outer covering as shown in the drawing on the left.
 2. Insert the soft PVC and solderless sleeve, in that order, onto the cable. Fold back the outer conductor, and cut the insulator to obtain the dimensions indicated in B.
 3. Insert the insulation into the center conductor of the cable. Next insert the center conductor into the center contact and solder it. (Be careful to avoid any solder build-up.)
 4. Insert this block into the plug. Insert the solderless sleeve, and crimp it with the proper tool. (As indicated) Cut off any of the outer conductor which is left outside the solderless sleeve at this time.
- Note: In the case of UM-QP-1.5, it is advisable to insert this block into the plug with the plug locator (UM-QP-T) fitted into position.
- Dedicated fixture HT303/UM-MSS-T-1
5. Finally, insert the soft PVC.
 6. In UM-QLP-1.5, after everything has been done up to Fig. 2, insert into the plug and then perform 4 and 5.
 7. Put the cable core into the split part of the center contact and solder it. (Be careful to avoid any solder build-up.)

Clamping system

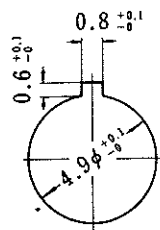
Part No.	A	B	C
UM-QP -196/U	4.0	2.7	1.0
UM-QLP-196/U	6.5	1.1	5.0
UM-QJ -196/U	4.0	2.7	1.0
UM-QPJ-196/U	4.0	2.7	1.0



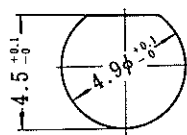
1. Cut the outer covering as shown in the drawing on the left.
 2. Disentangle the outer conductor, and cut the insulation as shown in the drawing on the left.
 3. Pass the cable through the cap, insert the clamp, and fold back the outer conductor as is shown in the drawing on the left. Cut the outer conductor at 1.4mm after inserting the washer. (The C dimensions are approximately the dimensions given in the table above.) (Tighten the clamp in the direction of the split.)
 4. Insert the insulation in front of the washer, insert the center contact into the core of the cable, and solder it. (Be careful to avoid any solder build-up.)
 5. Insert the insulation.
 6. Insert this block into the plug and tighten the cap until they match at part "a."
- Note: In the case of UM-QP-196/U, it is advisable to insert this block into the plug with the plug locator (UM-QP-T) fitted into position.
7. In UM-QLP-196/U, after everything has been done up to Fig. 3, insert into the plug and then tighten the cap thoroughly.
 8. Put the cable core into the split part of the center contact and solder it. (Be careful to avoid any build-up of solder.)

Drawings of holes drilled for panel mounting

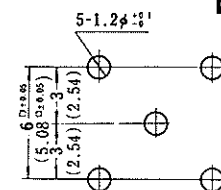
Mounting holes for
UM-QR,
UM-QPJ-1.5,
UM-SR,
UM-SPJ-1.5,
UM-QPJ-196/U,



Mounting holes
for UM-QR-1
UM-QR-8

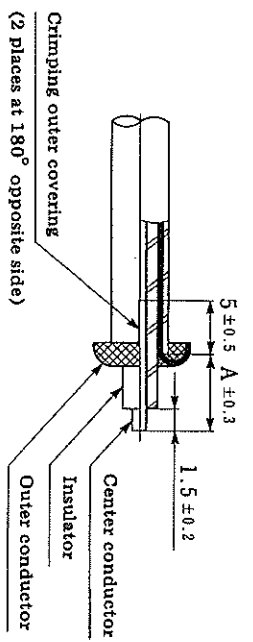


For printed circuit boards



UM-R-PC, UM-PR-PC, UM-LR-PC, UM-LR-PC-4
Note: UM-R-PC-1, UM-PR-PC-1 are also available with the dimensions given in parenthesis.

Fig. 2

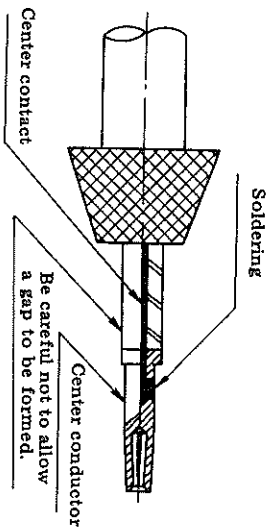


2. Cable end processing Fig. 2.
Process the cable ends as shown in Fig. 2.
Dimension A shown under

Part No.	A
UM-QP-1.5CR3 (02)	6.8
UM-QP-2.5CR3 (02)	5.6

Note: Be careful not to damage the outer conductor or center conductor of the cable.

Fig. 3



3. Solder the center contact Fig. 3

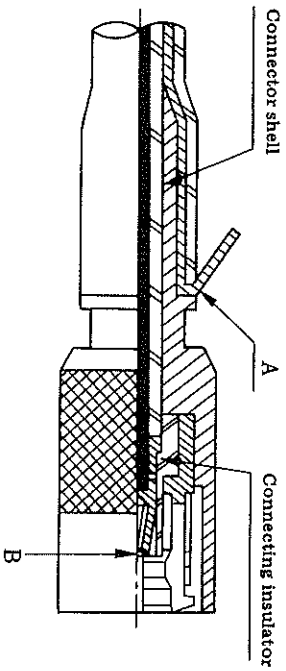
(1) Solder the solder hole of center contact.

(2) Insert cable center conductor into the solder hole and solder it.

Note 1: Be careful when soldering not to melt the cable insulator when soldering.

Note 2: Remove the extra solder by knife where the solder is applied.

Fig. 4



4. Insert the cable into the connector Fig. 4.

(4) Insertion of cable is finished when the tip of center contact strikes against the connecting insulator at B section.

(2) Cut off the outer conductor by knife blade if it appears beyond A part.

UM SERIES RF CO-AXIAL CONNECTORS

List of Connection Tools

Working tools by applicable cable for the UM series are as listed in a table below.

Applicable cable	Part No.	Connecting tool name	
		For outer conductor	Lid press-fitting rod
1.5D-2V	UM-QP-1.5VCR3A(40)	HT303/UM.MSS-T-1	-
	UM-QLP-1.5-6(40)	HT303/UM.MSS-T-1	UM-T-1
1.5D-2W	UM-QP-1.5WCR3A(40)	HT303/PO-P-2-T	-
	UM-QLP-1.5W-6(40)	HT303/PO-P-2-T	UM-T-1
2.5D-2V	UM-QP-2.5CR3A(40)	HT303/PO73-T-4	-

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- ⊖ [Hirose Electric Co Ltd Information](#)

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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management