FCO-AXIAL CONNECTORS



The UM (Ultra-Miniature) series consists of ultrasmall-size coaxial connectors that

Overview

are most suitable for very thin coaxial cables having a high reliability.

Two types of lock are available: the screw-lock type and the quick-lock type. The

quick-lock type has been approved in Defense Agency standards NDS XC6115 and

creased; and the screw-clamp system, in which wires can be connected accurately. the simplicity and accuracy of the work of connecting the wiring is greatly in-• Two connecting methods are available: the solderless connecting system, in which D2b C6205,

Main performance characteristics

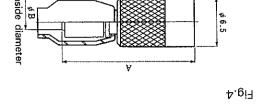
1.2 or less at DC ~ 1000MHz	Voltage standing wave ratio
v09	Characteristic impedance
500V AC (rms) for 1 minute	Aget lov brastatiW
1000MΩ or more at 500V DC	insulation resistance
5mΩ or less (at 1A DC)	Sonstaises toestnoO
Standard value	sm911

Main materials used

dzini∃	sleirəteM	Part
Gold plating	Brass	llədZ
gnitsiq bloð	22518	Male contact
Gold plating	Beryllium copper	Female contact
	nisər əbiroultsıtaT	noitaluan

seuld 4-MU

aqyt x	it toet	noo 15	stneO*		
₽. <u>g</u> i∃	8.2	21	2.5D-2V	UM-QP-2,5CR3A(40)	318-0164-0-40
₽.gi7	8.1	8.81	1.5D-2W	UM-QP-1.5WCR3A(40)	318-0176-0-40
₽. <u></u> 6i∃	8.1	8.81	1.5D-2V	UM-QP-1.5VCR3A(40)	318-0160-0-40
Эрэре	9 φ	A	eldezilqqA eldez	Part No.	нва ио.

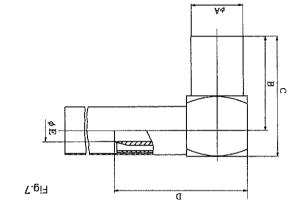




RFCO-AXIAL CONNECTORS

NWSERIES

F-sysbed bing





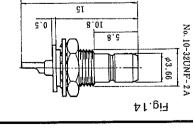
7.6	jiΉ	8.r	1.41	6.E1	4,0r	£.8	1.5D-2W	UM-QLP-1.5W-6(40)	318-0163-8-40
7.E	3i∃	8.f	l'bl	E.Er	10.4	6.8	VS-GB.1	UM-QLP-1.5-6(40)	318-0162-5-40
əde	945	ヨΦ	a	Э	8	A	eldsoilggA eldso	.oN ħs٩	.on SAH

RECO-AXIAL CONNECTORS

NWSERIES

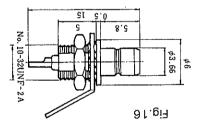
UM-R receptacles

8r.gi∃	UM-QR-1(⊄1)	CF318-0011-0-41
₽ſ.gi₹	UM-QR(41)	CF318-0005-9-41
Remark	Part No.	.on SAH



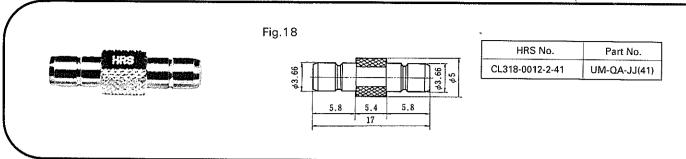




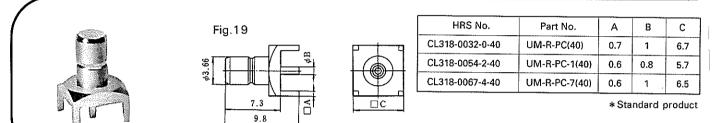


UMSERIES RFCO-AXIAL CONNECTORS

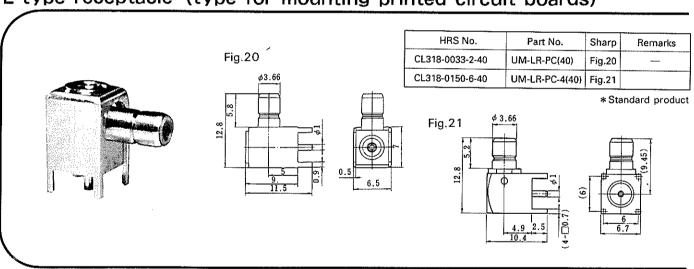
UM-A linear adapters



Receptacles (type for mounting printed circuit boards)



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



UNSERIES PECO-AXIAL CONNECTORS

Plug receptacle (type for mounting printed circuit boards)

ي د .ع	UM-PR-PC-1(40)	CF318-0118-3-40	(° L'S)	. 5 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
≏7.8	UM-PR-PC(40)	CF318-0039-0-40	 (�) 	3.733	
Кетагка	Part No.	'on suh		Fig.23	4-

UNSERIES PECO-AXIAL CONNECTORS

UM Series Plating Specifications List

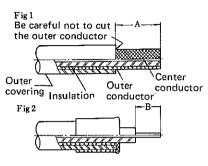
The UM series are available with the center contact gold-plated or silver-plated, and outer contact gold-plated or nickel-plated. Plating specifications by part numbers are as follows:

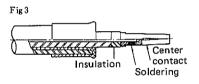
193	nO	ıter	Cer	-14 2011	- 1 V 7- Q		- 1 ₆ 4.
Nickel	bloð	Silver	Gold	.on sah	Part No.	ed.	Áι
0			0	318-0190-0-40	UM-QP-1.5VCR3A(40)]	
0			0	0 ≱ -0-9∠L0-8LE	UM-QP-1.5WCR3A(40)	6n	ld
0			0	318-0164-0-40	UM-QP-2.5CR3A(40)		
0			0	318-0162-5-40	UM-QLP-1.5-6(40)	pade	
0			0	318-0163-8-40	UM-QLP-1.5W-6(40)		 Bnjd
	0		0	318-0002-9-40	UM-QR(40)		
0			0	318-0002-9-41	UM-QR(41)	elastq	Recei
	0		0	UM-QR-1(40) 318-0011-0-40		i .	
0			0	318-0011-0-41	UM-QR-1(41)		
	0		0	318-0015-2-40	UM-QA-JJ(40)	bţeı	ebA
0			0	318-0012-2-41	(fÞ)LL-AD-MU		
	0		0	318-0032-0-41	UM-R-PC(41)		
0			0	318-0032-0-40	UM-R-PC(40)	Rece pta-	
	0		0	318-0054-2-41	UM-R-PC-1(41)	ejo	
0			0	318-0067-4-40	UM-R-PC-7(40)		for
	0		0	318-0033-2-41	UM-LR-PC(41)	pedeus peo	Pcod ,
0			0	318-0033-2-40	NM-LR-PC(40)	انومونا	
0			0	318-0120-6-40	UM-LR-PC-4(40)	ptacle	
	0		0	11-0-9800-818	UM-PR-PC(41)	Plug	
0		-	0	318-0036-0-40	UM-PR-PC(40)	eloefq	
	0		\circ	318-0118-3-40	UM-PR-PC-1(40)	1	

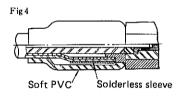
UMSERIES RFCO-AXIAL CONNECTORS

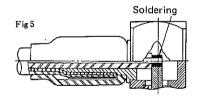
Connecting methods

Solderless connecting system









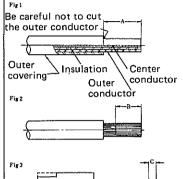
Part No.	Α	В
UM-QP -1.5	4.7	2.7
UM-QLP-1.5	4.7	1.1
UM-QJ -1.5	4.7	2.7
UM-QPJ-1.5	4.7	2.7

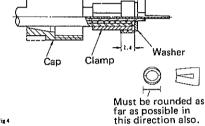
- Cut the outer covering as shown in the drawing on the left.
- 2. Insert the soft PVC and solderless sleeve, in that order, onto the cable. Fold back the outer conductor, and cut the insulator to obtain the dimensions indicated in B.
- 3. Insert the insulation into the center conductor of the cable. Next insert the center conductor into the center contact and solder it. (Be careful to avoid any solder build-up.)
- Insert this block into the plug. Insert the solderless sleeve, and crimp it with the proper tool. (As indi-cated) 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.

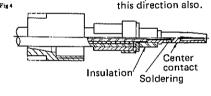
Dedicated fixture HT303/ UM-MSS-T-1

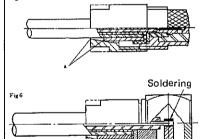
- Finally, insert the soft
- UM-QLP-1,5, In everything has been done up to Fig. 2, insert into the plug and then perform 4 and 5.
- Put the cable core into the split part of the center contact and solder it. (Be careful to avoid any solder build-up.)

Clamping system









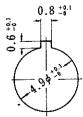
- С Part No. В UM-QP -196/U 4.0 2.7 1.0 UM-QLP-196/U 6.5 1.1 5.0 UM-QJ -196/U 4.0 1.0 2.7 UM-QPJ-196/U 4.0 2.7
 - 1. Cut the outer covering as shown in the drawing on the left.
 - 2. Disentangle the outer conductor, and cut the insulation as shown in the drawing on the left.
 - 3. Pass the cable through 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.)
 - 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 buildup).
- 5. Insert the insulation.
 - 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.
 - 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

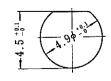
Mounting holes for UM-QR.

UM-QPJ-1.5, UM-SR, UM-SPJ-1.5,

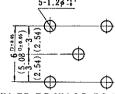
UM-QPJ-196/U,



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



For printed circuit boards

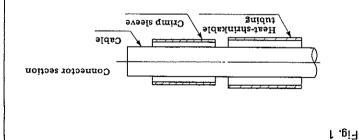


UM-R-PC, UM-PR-PC, UM-LR-PC, UM-LR-PC-4 Note: UM-R-PC-1, UM-PR-PC-1 are also available with the dimensions given in parenthesis

W SERIES RECOAXIAL CONNECTORS

1. UM-QP-1.5CR3 (02), UM-QP-2.5CR3 (02)

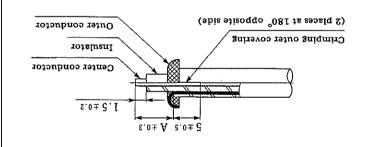
sleeve in the cable as shown in Fig. 1. Fig. 1. Mount the heat-shrinkable tubing and crimp 1. Mounting the heat-shrinkable tubing, crimp sleeve -----



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

9.3	(S0) 873-3-90-MU	
8.8	(S0) 8A33.1-4D-MU	
∀ ∀	Part No.	

or center conductor of the cable, Be careful not to damage the outer conductor :9JON

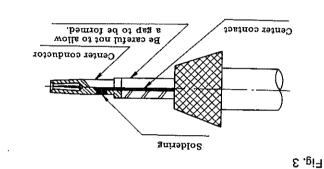


(1) Solder the solder hole of center contact. 3. Solder the center contact Fig. 3

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

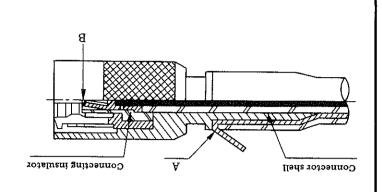
insulator when soldering. Note 1: Be careful when soldering not to melt the cable

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



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

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



₽.gi-4

Fig. 2

UMSERIES RFCO-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		
	Part NO.	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 50 2)4/	UM-QP-1.5WCR3A(40)	HT303/PO-P-2-T	***	
1.5D-2W	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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1 619550-1 630059-000 M39012/25-0021 M39012/79-3008 M39030/3-01N M39030/3-03N M3933/25-29N M3933/25-36N 6500-7071-046

6501-1071-002 M83723/72W24576 M83723/72W2457N 6769 CX050L2AQ 7002-1541-010 7002-1572-002 7003-1572-002 7004-1512
000 7009-1511-004 7010-1511-000 7029-1511-060 7101-1541-010 7101-1571-002 7105-1521-002 7145-1521-002 7209-1511-011 7210
1511-012 7210-1511-015 7210-1511-019 7210-1511-040 7225-1512-050 7242-1511-000 73137-5015 73251-0111 73251-0672 73276-1501

73366-0013 73404-2300 73413-6080 734151610