

Overview

- The UM (Ultra-Miniature) series consists of ultrasmall-size coaxial connectors that 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 DSP C6205.
- Two connecting methods are available: the solderless connecting system, in which the simplicity and accuracy of the work of connecting the wiring is greatly increased; and the screw-clamp system, in which wires can be connected accurately.

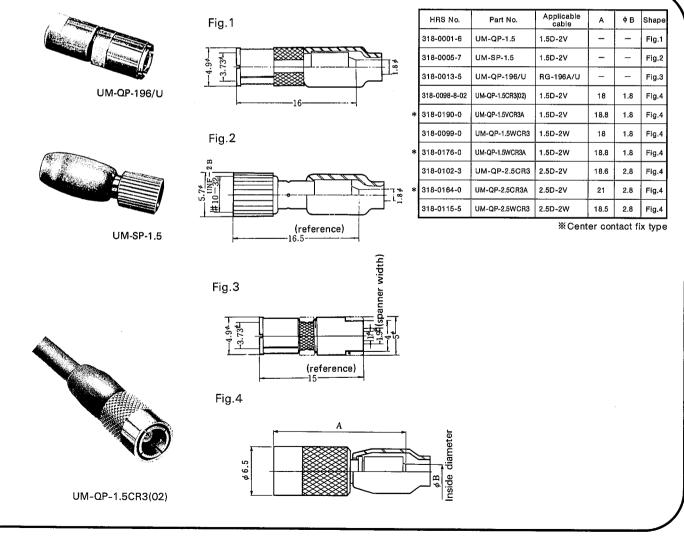
Main materials used

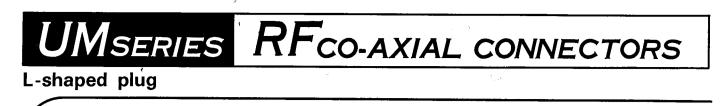
Part	Materials	Finish
Shell	Brass	Gold plating
Male contact	Brass	Gold plating
Female contact	Beryllium copper	Gold plating
Insulation	Tetrafluoride resin	

UM-P plugs

Main performance characteristics

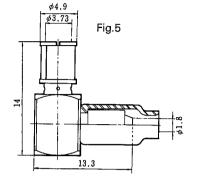
Items	Standard value
Contact resistance	5mΩ or less (at 1A DC)
Insulation resistance	$1000M\Omega$ or more at 500V DC
Withstand voltage	500V AC (rms) for 1 minute
Characteristic impedance	50Ω
Voltage standing wave ratio	1.2 or less at DC ~ 1000MHz

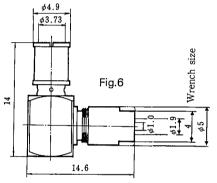




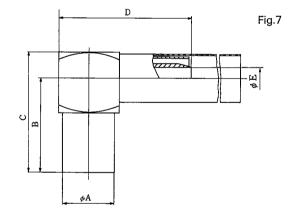


UM-QLP-196/U





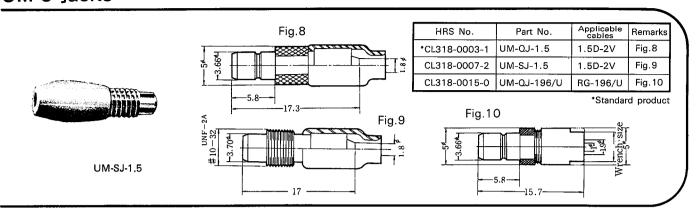




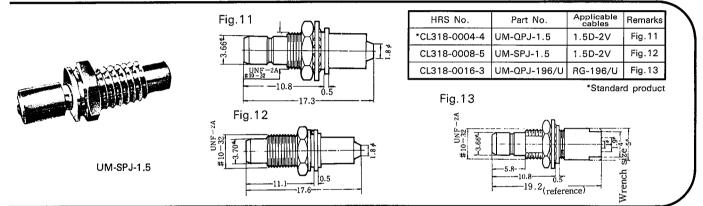
UM-QLP-1.5-6

HRS No.	Part No.	Applicable cable	A	В	С	D	φE	Shape
318-0009-8	UM-QLP-1.5	1.5D-2V	-	-		_	_	Fig.5
318-0014-8	UM-QLP-196/U	RG-196A/U	_	_	_	_	_	Fig.6
318-0162-5	UM-QLP-1.5-6	1.5D-2V	6.3	10.4	13.3	14.1	1.8	Fig.7
318-0163-8	UM-QLP-1.5W-6	1.5D-2W	6.3	10.4	13.3	14.1	1.8	Fig.7
318-0082-8(01)	UM-QLP-2.5CR4(01)	2.5D-2V	6.5	10.3	13.6	16.6	2.8	Fig.7
318-0085-6	UM-QLP-2.5WCR1	2.5D-2W	6.5	10.3	13.6	16.6	2.8	Fig.7





UM-PJ panel jacks



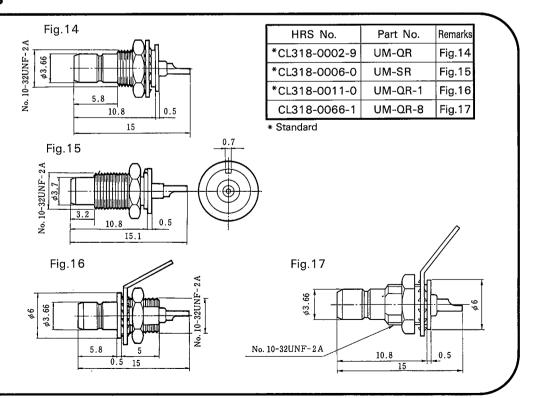
UM-R receptacles

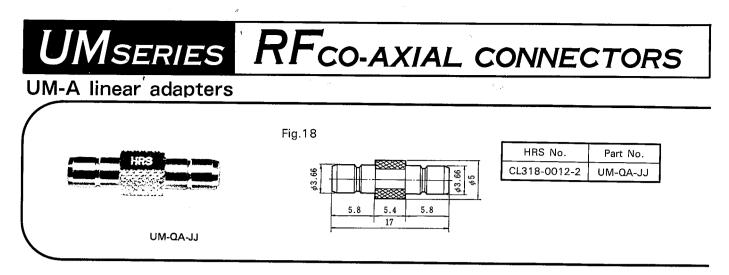


UM-QR

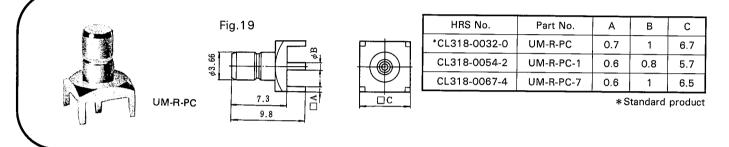


UM-SR

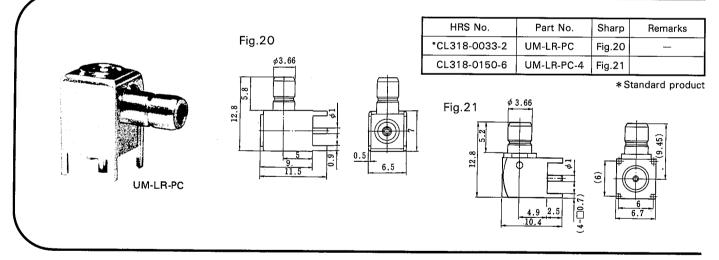




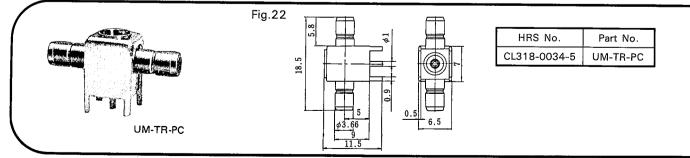
Receptacles (type for mounting printed circuit boards)



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

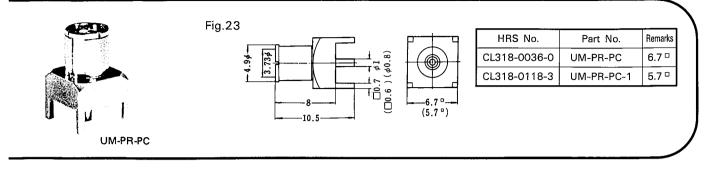


T-type receptacle (type for mounting printed circuit boards)





Plug receptacle (type for mounting printed circuit boards)





UM Series Plating Specifications List

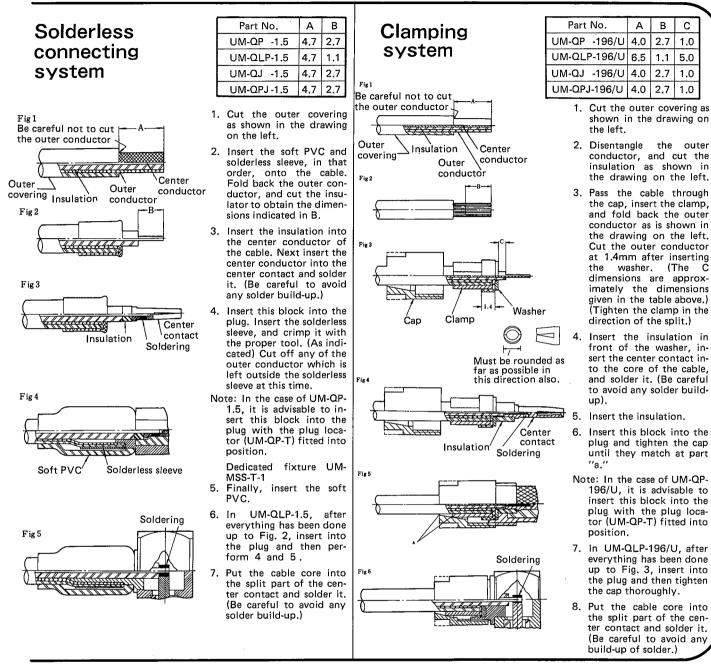
The UM series are available with the center contact gold-plated or silver-plated, and outer contact gold-plated or nickel-plated. Plating specifications by part numbers are as follows:

Туре	Part No.		Center		Outer		T				Center		Outer	
		HRS No.	Gold	Silver	Gold	Nickel	– Туре 1	Part No.	HRS No.	Gold	Silver	Gold	Nickel	
	UM-QP-1.5	318-0001-6	0		0				UM-QJ-1.5	318-0003-1	0		0	
	UM-QP-1.5(01)	318-0001-6-01	0			0		1 .	UM-QJ-1.5(02)	318-0003-1-02	0			0
	UM-SP-1.5	318-0005-7	0		0		Ja	ack	UM-QJ-1.5	318-0007-2	0		0	
	UM-QP-196/U	318-0013-5	0		0				UM-QJ-196/U	318-0015-0	0		0	
	UM-QP-196/U(01)	318-0013-5-01	0			0			UM-QPJ-1.5	318-0004-4	0		0	
	UM-QP-1.5CR3	318-0098-8	0			0			UM-QPJ-1.5(01)	318-0004-4-01	0			0
	UM-QP-1.5CR3(02)	318-0098-8-02		0		0	Panel jack	UM-SPJ-1.5	318-0008-5	0		0		
Plug	UM-QP-1.5CR3(03)	318-0098-8-03	0		0				UM-QPJ-196/U	318-0016-3	0		0	
	UM-QP-1.5VCR3A	318-0190-0	0			0			UM-QPJ-196/U(01)	318-0016-3-01	0			0
	UM-QP-1.5WCR3	318-0099-0	0			0	Adapter		UM-QA-JJ	318-0012-2	0		0	
	UM-QP-1.5WCR3A	318-0176-0	0			0			UM-QA-JJ(01)	318-0012-2-01	0			0
	UM-QP-2.5CR3	318-0102-3	0			0								
	UM-QP-2.5CR3(02)	318-0102-3(02)		0		0	- pt		UM-R-PC	318-0032-0	0		0	
	UM-QP-2.5CR3(03)	318-0102-3(03)	0		0				UM-R-PC(02)	318-0032-0-02	0			0
	UM-QP-2.5CR3A	318-0164-0		0		0		Rese	UM-R-PC-1	318-0054-2	0		0	
	UM-QP-2.5WCR3	318-0115-5		0		0		pta- cle	UM-R-PC-1(01)	318-0054-2-01	0			0
	UM-QP-2.5WCR3	318-0115-5-01	0			0			UM-R-PC-7	318-0067-4		0		0
	UM-QLP-1.5	318-0009-8	0		0				UM-R-PC-7(01)	318-0067-4-01	0			0
	UM-QLP-1.5(01)	318-0009-8-01	0			0								
	UM-QLP-196/U	318-0014-8	0		0			L- shaped rece ptacle	UM-LR-PC	318-0033-2	0		0	
	UM-QLP-196/U(01)	318-0014-8-01	0			0			UM-LR-PC(01)	318-0033-2-01	0			0
L-shaped	UM-QLP-1.5-6	318-0162-5	0			0	for		UM-LR-PC-4	318-0150-6	0		0	
plug	UM-QLP-1.5W-6	318-0163-8	0			0	PC board		UM-LR-PC-4(01)	318-0150-6(01)	0			0
	UM-QLP-2.5CR4(01)	318-0082-8-01	0			0			UM-LR-PC-4(02)	318-0150-6(02)		0		0
	UM-QLP-2.5WCR1	318-0085-6	0			0			UM-TR-PC	318-0034-5	0		0	
	UM-QR	.318-0002-9	0		0		1							
	UM-QR(01)	318-0002-9-01	0			0			UM-PR-PC	318-0036-0	0		0	
	UM-SR	318-0006-0	0		0			Plug rese ptacle	UM-PR-PC(01)	318-0036-0-01	0			0
Receptacle	UM-SR(01)	318-0006-0-01	0			0			UM-PR-PC(02)	318-0036-0-02		0		0
	UM-QR-1	318-0011-0	0		0				UM-PR-PC-1	318-0118-3	0		0	
	UM-QR-1(01)	318-0011-0-01	0			0			UM-PR-PC-1(01)	318-0118-3-01		0		0
	UM-QR-8	318-0066-1		0		0								

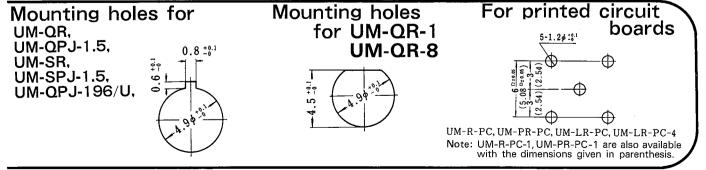
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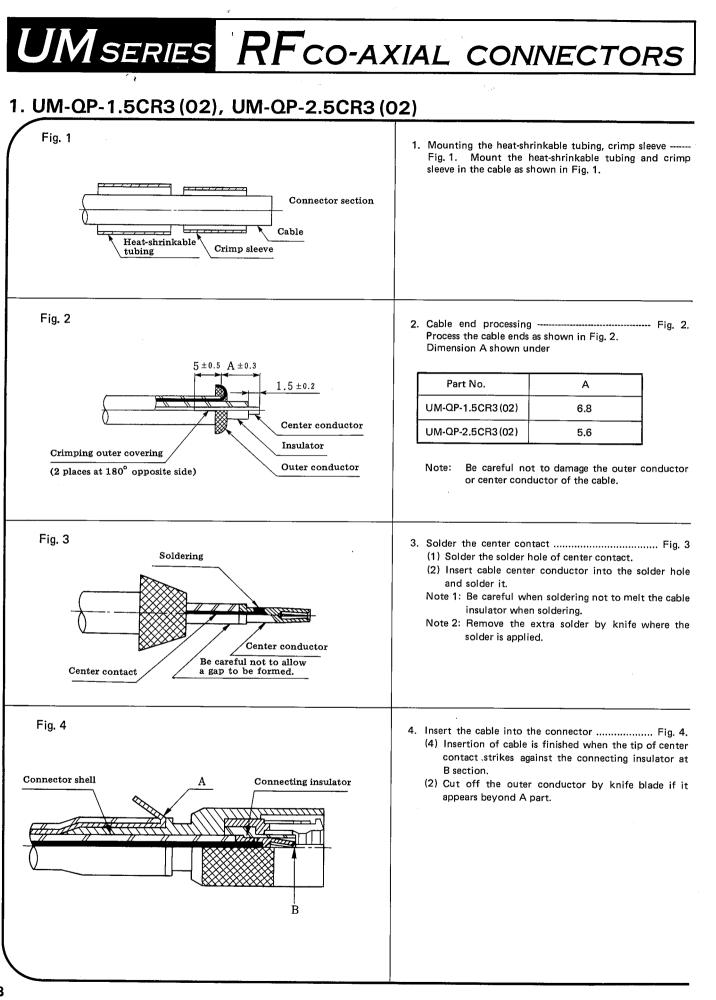


Connecting methods

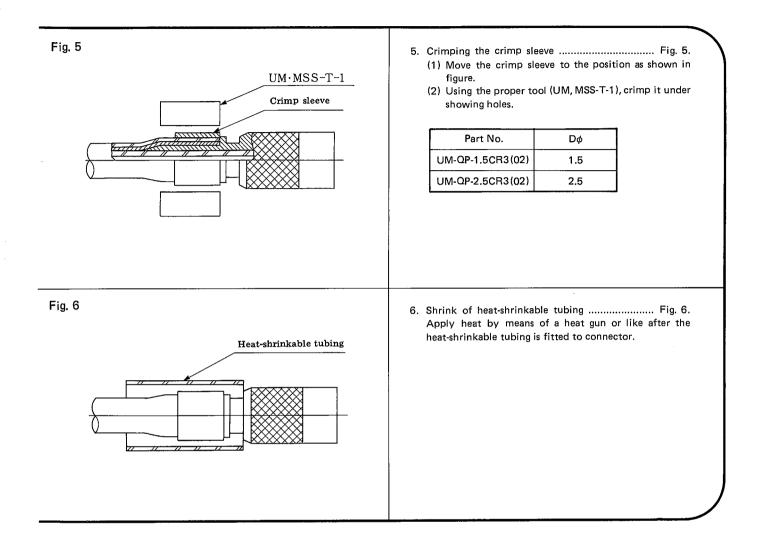


Drawings of holes drilled for panel mounting











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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				
	Fart No.	For outer conductor	Lid press-fitting rod			
	UM-QP-1.5	UM, MSS-T-1	—			
	UM-SP-1.5	UM, MSS-T-1				
	UM-QP-1.5CR3	UM, MSS-T-1	_			
	UM-QP-1.5VCR3A	UM, MSS-T-1	_			
1.5D-2V	UM-QLP-1.5	UM, MSS-T-1	_			
1.50-20	UM-QLP-1.5-6	UM, MSS-T-1	UM-T-1			
	UM-QJ-1.5	UM, MSS-T-1	_			
	UM-SJ-1.5	UM, MSS-T-1	_			
	UM-QPJ-1.5	UM, MSS-T-1	—			
	UM-SPJ-1.5	UM, MSS-T-1	_			
	UM-QP-1.5WCR3	PO-P-2-T	_			
1.5D-2W	UM-QP-1.5WCR3A	PO-P-2-T	_			
	UM-QLP-1.5W-6	PO-P-2-T	UM-T-1			
2.5D-2V	UM-QP-2.5CR3	UM, MSS-T-1	_			
	UM-QP-2.5CR3A	UM, MSS-T-1				
	UM-QLP-2.5CR4	UM, MSS-T-1	UM-T-2			
2.5D-2W	UM-QP-2.5WCR3	HRM-T-4				
2.50-244	UM-QLP-2.5WCR1	HRM-T-4	UM-T-2			

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