MSSSERIES

RFCO-AXIAL CONNECTORS

Overview

As microelectronic equipment has been adopted more and more in the electronic industry, electronic circuits are being converted to those of the unit type, modular type and integrated type. Foreseeing this trend, our company made use of the latest technology of high-frequency connectors and developed the ultrasmall high-frequency connectors of the MSS (micro-slide-snap) series. (Registered Utility Model Nos. 882197 and 923632)

- MSS is approved in the Defense Agency's standards NDS XC 6120 and DSP C6206.
- MSS displays its individuality in all respects. Although the connectors have been highly miniaturized in their size, they have performance properties which fully rival those of medium-sized high-frequency connectors. Since the slide-snap lock system is adopted, more or less perfect surface contacts are achieved in both the inner and outer conductors, while at the same time superior vibration-resistance properties are displayed.
- Two types of MSS 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, which makes it possible to connect the wiring accurately.
- The MSS types match mainly the 1.5D-2V and 2.5D-2V cables.
- The types for printed circuit boards are constructed so as to be mountable by soldering directly onto the printed circuit boards.

Materials, finish

Parts	Materials	Finish
Shell	Brass	Gold plating
Male contact	Brass	Gold plating
Female contact	Beryllium copper	Gold plating
Insulation	Tetrafluoride resin	
Lock spring	Beryllium copper	Nickel plating

Main performance characteristics

Items	Standard value
Contact resistance	5mΩ or less (at 1A DC)
Insulation resistance	$2000\text{M}\Omega$ 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 ~ 2000 MHz

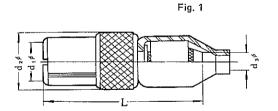
MSS-P plugs

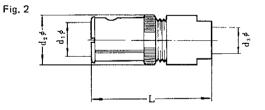


MSS-P-2.5

HRS No.	Part No.	Applicable cables	$d_1\phi$	d₂φ	d₃ø	L	Remarks
*CL319-0001-2	MSS-P-1.5	1.5D-2V,RG-174/U	4.65	7.5	1.8	20.5	Fig.1
*CL319-0013-1	MSS-P-2.5	2.5D-2V	4.65	7.5	2.8	20.5	Fig.1
CL319-0018-5	MSS1-P-55/U	RG-55/U	5.65	8.5	3.2	24.0	Fig.1
*CL319-0024-8	MSS-P-1.5-A	1.5D-2V	4.65	6.5	3.4	16.0	Fig.2
CL319-0026-3	MSS-P-196/U	RG-196/U	4.65	6.5	1.9	16.0	Fig.2

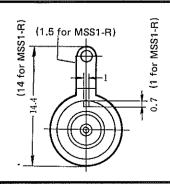
*Standard product

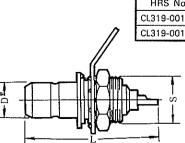




MSS-R receptacles







HRS No.	Part No.	Dφ	L	S
CL319-0010-3	MSS-R	4.6	17.9	M6×0.75
CL319-0019-8	MSS1-R	5.6	19.8	M6×0.5

*Standard product

SERIES PECO-AXIAL CONVECTORS



MSS-J jacks

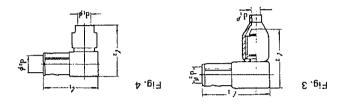
100	noid bu	sbnsi2*			7.5	
1001	ora bri					
20.6	8.2	VS-G8.S	MSS-J-2.5(40)	CF319-0014-4-40		
		· · · · · · · · · · · · · · · · · · ·	MSS-J-2.5(40)	CF318-0004-4-40		# 25.50 to become and

						C. 2 5		
	CF318-0016-0-40	MSS-PJ-2.5(40)	2.5D-2V	9.4	8.2	87.0×8M	5.7	20.4
			<u> </u>					

W2S-LP L-type plugs

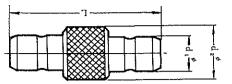
Bemarks	z j	13	φzp	φιр	Applicable cables	Part No.	.oN SЯН
£.gi∄	3.81	0.er	59.4	8.r	U\4\1-98,VS-Q8.f	MSS-LP-1.5(40)	CF318-0002-8-40
£.gi∃	8.8r	19.0	99.4	8.2	VS-G8.S	MSS-LP-2,5(40)	CF318-0012-1-40
4.gi ⁻ i	5.21	0.81	4.65	4.8	VS-G8.1	(04))A3.1-9J-2SM	CF318-0052-0-40
.թ։∃	9'91	0.31	89.4	2.3	U/961-9A	(04)U/961-9J-SSM	CF316-0051-6-40





MSS-A linear adapters

6L	L	9.4	{0⊅}LL-A-22M	CF318-0011-9-40
7	φzp	φıb	Part No.	HRS No.

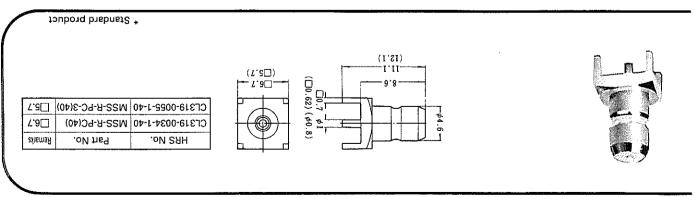




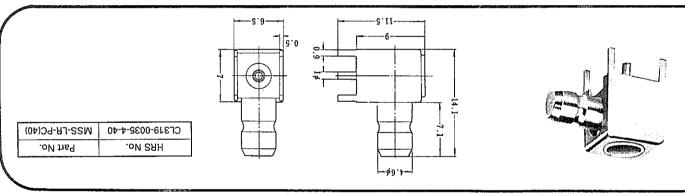
RFCO-AXIAL CONNECTORS



Receptacle (Types for mounting printed circuit boards)



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



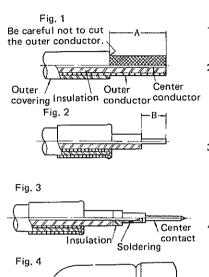
Four-way branched receptacle (Types for mounting printed circuit boards)

CL319-0038-2-40 MSS-PR-PC(40)	
-------------------------------	--

MSSseries RFco-axial connectors

Connecting methods

Solderless Connecting system



- Soft PVC Solderless sleeve (ferrule)

 Soldering

 Fig. 5
 - *1 Tool recommended HT303/UM-MSS-T-1

- Part No.
 A
 B

 MSS-P-1.5
 5.8
 2.6

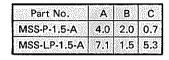
 MSS-P-2.5
 5.8
 1.7

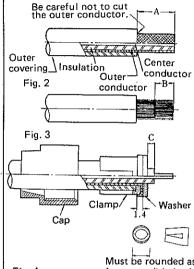
 MSS-J-1.5
 7.4
 3.3

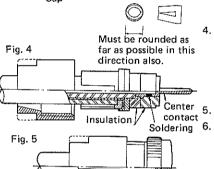
 MSS-LP-1.5
 5.8
 2.0
- Cut the outer covering as shown in the drawing on the left.
- Insert the soft PVC and ferrule, in that order, onto the cable. Fold back the outer conductor, and cut the insulator to obtain the dimensions indicated in B.
- Insert the insulation into the center conductor of the cable. 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. Cut off any of the outer conductor which is left outside the ferrule at that time.*1
- Finally, insert the soft PVC.
- In MSS-LP-1.5, after 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.)

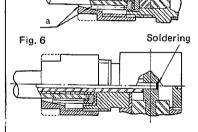
Clamping system

Fig. 1





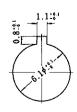




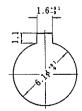
- Cut the outer covering as shown in the drawing on the left.
- Disentangle the outer conductor, and cut the insulation at dimension B.
- 3. Pass the cable through the cap, insert the clamp, and fold back the outer conductor as is shown in the drawing on the left. Cut the outer conductor at 1.4mm after 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.)
- Insert the insulation.
- Insert this block into the plug and tighten the cap until they match at part "a".
- In MSS-LP-1.5-A, 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 hole in the center contact and solder it. (Be careful to avoid any solder build-up.)

Drawings of holes drilled for panel mounting

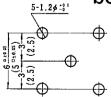
Mounting holes for MSS-R, MSS-PJ-2.5



Mounting holes for MSS1-R



For printed circuit boards



MSS-R-PC, MSS-PR-PC, MSS-LR-PC Note: MSS-R-PC-3 are also available with the dimensions given in parenthesis.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Connectors / Coaxial Connectors category:

Click to view products by Hirose manufacturer:

Other Similar products are found below:

R125315120 8915-1511-000 89674-0827 5916-1103-603 0106-001-000 6-0001-3 6001-7071-019 6002-7051-003 6002-7551-202 6059674-1 619550-1 630059-000 M39012/25-0021 M39012/79-3008 M39030/3-01N M39030/3-03N M3933/25-36N 6500-7071-046 6501-1071-002 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 73415-5721 7405-1521-005