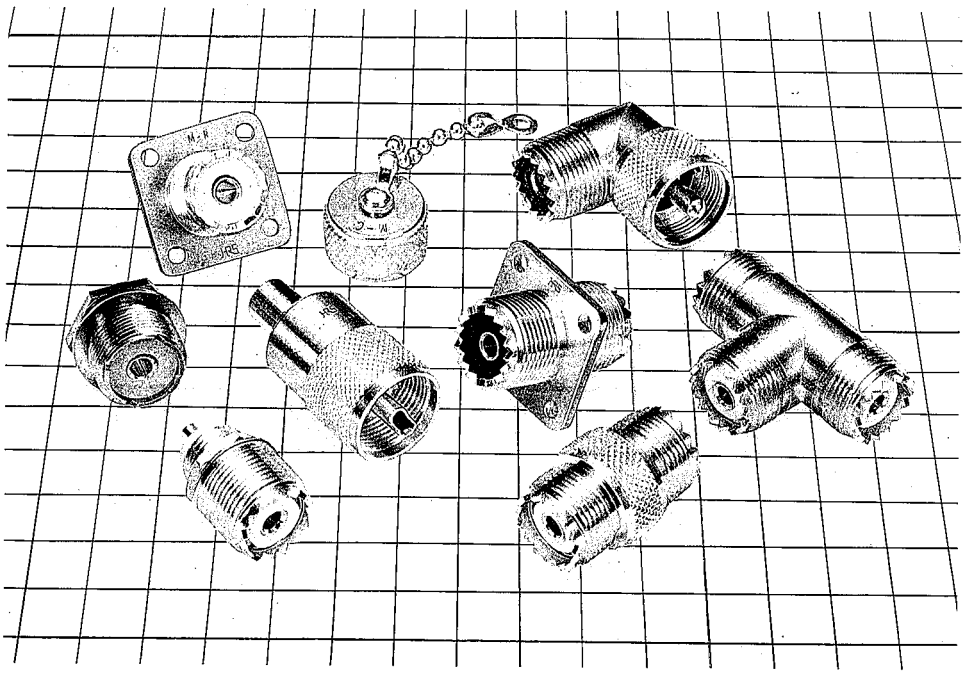
M SERIES RF CO-AXIAL CONNECTORS

Outline

M Series RF Co-axial Connectors are popular and low-cost coaxial connectors. Medium size, thread-coupling type items for thin and medium-size electrical cords are the most popular connectors having non-rated impedance. Having no weather-resistance capability, these connectors cannot be used in humid environment without suitable protection against moisture. Maximum rated voltage is 500 V (crest value). Without impedance matching, up to 200 MHz will be a reasonable service range. Recommended coaxial cables are 3C-2V, 5C-2V, and 7C-2V.



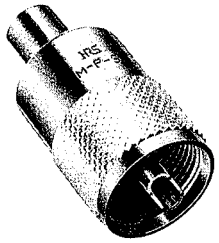
Material and finish

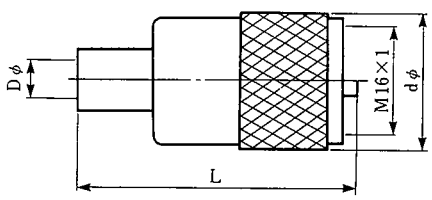
Part Name	Material	Finish
Exterior (shell)	Brass	Siliver plating + surface treatment
Center contact (male)	Brass	Silver plating + surface treatment
Center contact (female)	Phosphor bronze	Silver plating + surface treatment
Insulator	Tetravalent fluoric resin, tetrafluoride resin	

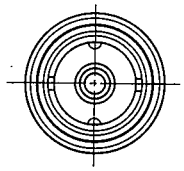
Performance

Item	Standard value
Contact resistance	3 mΩ and under at 1 A DC)
Insulation resistance	100 MΩ and above at 500 V DC
Withstand voltage	1 min. at 1000 V AC

Plug M-P

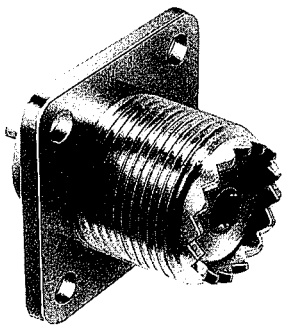


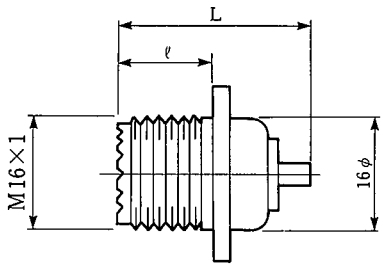


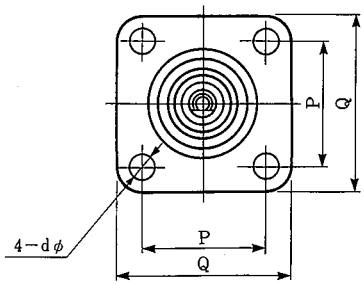


HRS No.	Part No.	Applicable cable	D φ	L	d φ	Insulator
CL303-0041-1	M-P-3-1	3C-2V, 3D-2V RG-55, 58/U	7P=1 inner dia. 6.3	40	19	Tetrafluoride resin
CL303-0044-0	M-P-5-1	5C-2V, 5D-2V RG-5, 6/U	9P=1.25 inner dia. 8.2	40	19	Tetrafluoride resin
CL303-0042-4	M-P-7-1	7C-2V RG-8, 11/U	11P=1.25 inner dia. 10.2	40	19	Tetrafluoride resin
CL303-0043-7	M-P-10-1	10C-2V, 10D-2V RG-14, 15/U	14P=1.25 inner dia. 13.2	41	21	Tetrafluoride resin

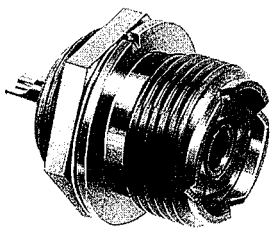
Receptacle M-R

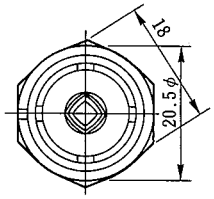


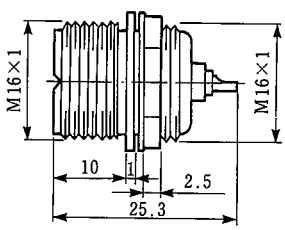




HRS No.	Part No.	P	Q	ℓ	d φ	L	Insulator
CL303-0061-9	M-R-1	18	25	14	3.3	27.5	Tetrafluoride resin

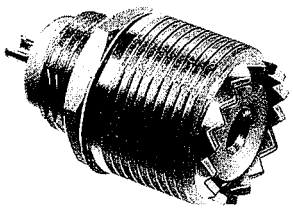


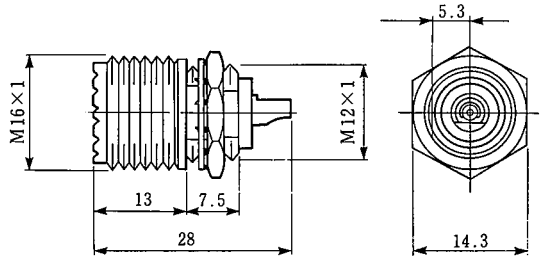




HRS No.	Part No.	Insulator
CL303-0136-6	HM-R-8	Tetrafluoride resin

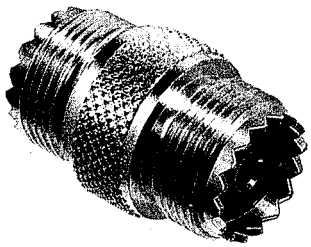
Receptacle M-R

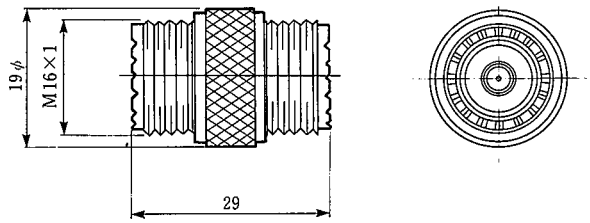




HRS No.	Part No.	Insulator
CL303-0094-8	M-R-12	Tetrafluoride resin

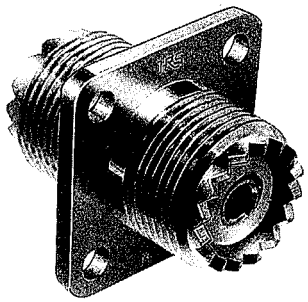
Straight adapter M-A

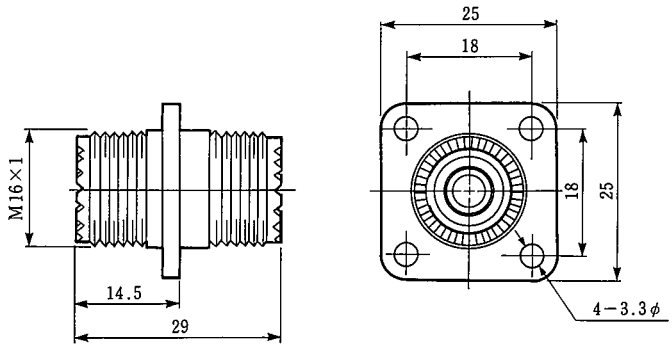




HRS No.	Part No.	Insulator
CL303-0024-2(01)	M-A-JJ(01)	Tetrafluoride resin
CL303-0024-2(02)	M-A-JJ(02)	Phenolic resin

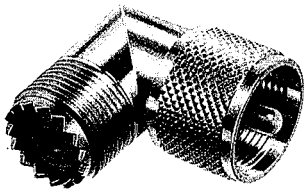
Panel adapter M-PA

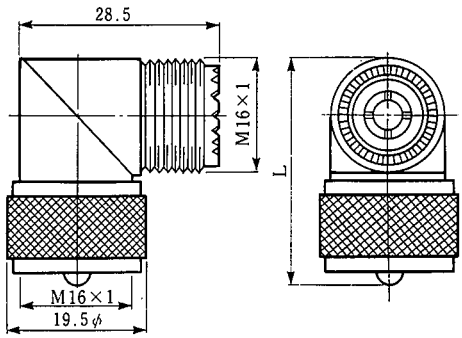




HRS No.	PartNo.	Insulator
CL303-0025-5(01)	M-PA-JJ(01)	Tetrafluoride resin
CL303-0025-5(02)	M-PA-JJ(02)	Phenolic resin

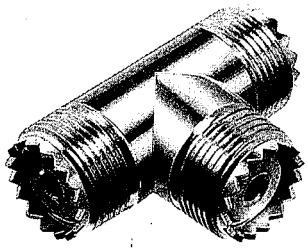
L-type adapter

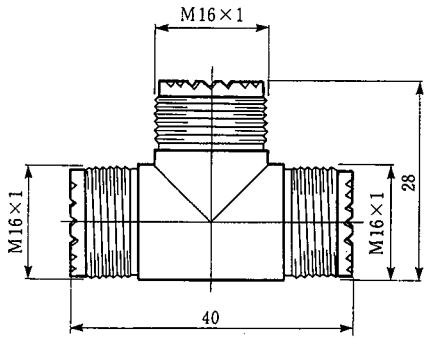




HRS No.	Part No.	L	Insulator
CL303-0027-0(01)	M-LA(01)	32	Phenolic resin

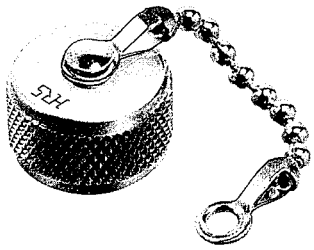
T-type adapter

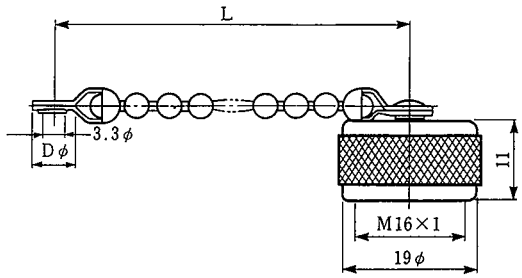




HRS No.	Part No.	Insulator
CL303-0007-3(01)	M-TA-JJJ(01)	Tetrafluoride resin

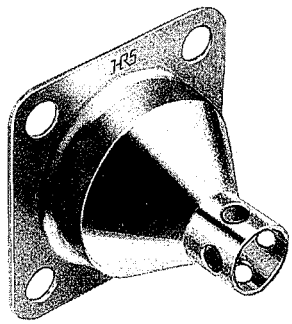
Cap M-C

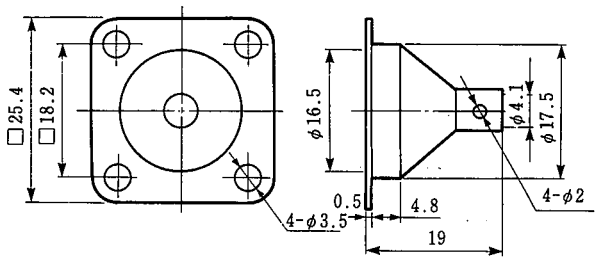




HRS No.	Part No.	Dφ	L
CL303-008-6	M-C	7	57

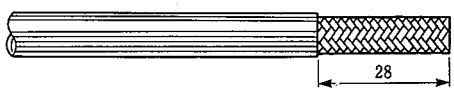
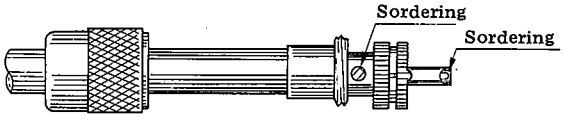
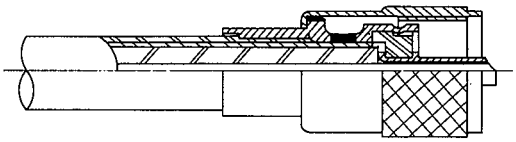
Hood M-H





HRS No.	Part No.	Applicable cable
CL303-0011-0	M-H-3	3C-2V

Cable connecting method

	Remove PVC covering of cord over 28 mm to expose external braid conductor.
	Expose center conductor over 17 mm with insulator exposed 2 mm as shown. Do not undo external braid conductor. Insert coupling over the cord.
	Screw in the shell assembly over the cord until the shell assembly comes to a stop. Through the soldering hole of the shell, solder the external conductor and the shell. At the end of the male terminal, solder the center conductor and the terminal.
	Pull the coupling back over the shell assembly.