

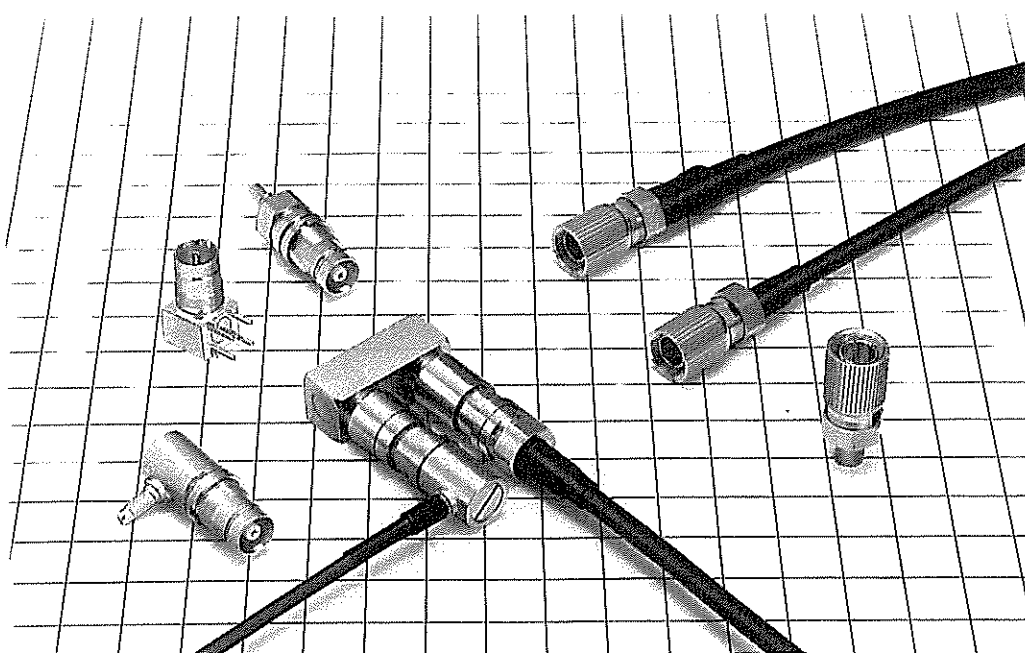
**MRF 1.6/5.6  
SERIES**

**RF CO-AXIAL CONNECTORS**

# MODEL IEC169-13 1.6/5.6 COAXIAL CONNECTORS

## Overview

The MRF1.6/5.6 series coaxial connectors comply with the IEC 169-13 1.6/5.6, and are compatible with three types of mating systems with a characteristic impedance of  $75\Omega$ . These connectors are widely used mainly for transmission and switching equipment.



## Features

- (1) Complies with IEC 169-13.
- (2) Compatible with three types of mating systems according to applications.  
The jack can be used for three types of mating systems.  
< (mating systems) > : A : Screw coupling B : Push-on C : Plug-in (A : Standard).
- (3) Suitable for small cables of 3C-2W or less.
- (4) Reduced in diameter to 70% of the BNC series.

## Applications

Transmission and switching equipment, electronic measuring instruments, communications equipment, video equipment, and controllers.

# MRF 1.6/5.6 SERIES

# RF CO-AXIAL CONNECTORS

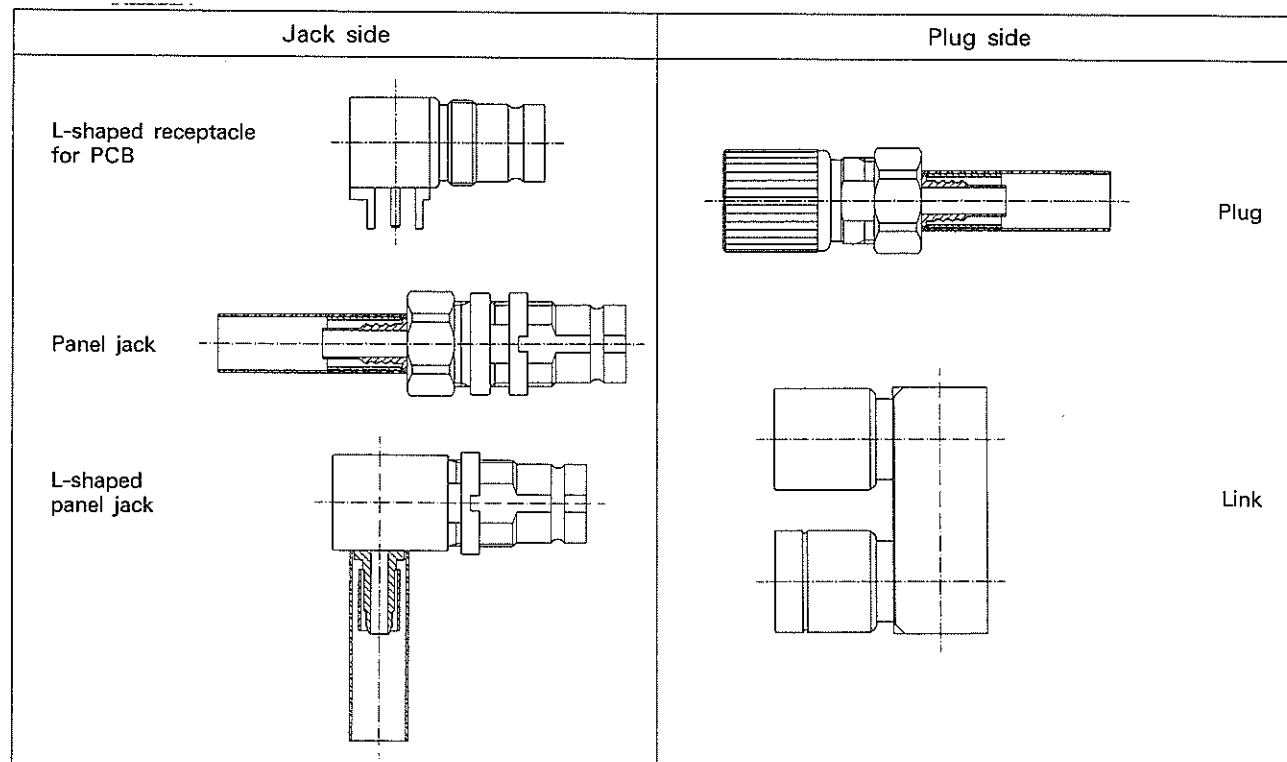
## Material/Finish

| Part                    | Material            | Finish                          |
|-------------------------|---------------------|---------------------------------|
| Armor (shell)           | Brass               | Nickel -plated<br>Silver-plated |
| Center contact (male)   | Brass               | Gold-plated                     |
| Center contact (female) | Beryllium copper    | Gold-plated                     |
| Outer contact (male)    | Phosphor bronze     | Gold-plated                     |
| Outer contact (female)  | Brass               | Gold-plated                     |
| Insulation              | Tetrafluoride resin | —                               |
| Crimp sleeve            | Copper              | Nickel -plated                  |
| Heat shrinkable tube    | Polyolefin          | —                               |

## Performance

| Item                     | Standard                                                   |
|--------------------------|------------------------------------------------------------|
| Contact resistance       | 4m $\Omega$ (center), 2m $\Omega$ (outer) or less at 1 ADC |
| Insulation resistance    | 1,000M $\Omega$ or higher at 50 0VDC                       |
| Withstand voltage        | 1,000 VAC for 1 min.                                       |
| Characteristic impedance | 75 $\Omega$                                                |
| VSWR                     | 1.2 or less at DC-500MHz                                   |

## Schematic



# MRF1.6/5.6 SERIES

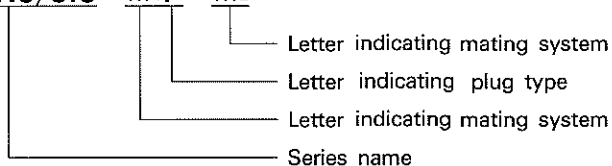
# RF CO-AXIAL CONNECTORS

## Mating system identification

The Mating system is identified by the alphabetic characters preceding the letters indicating the type of a plug part number.

<Plug part number identification>

**MRF1.6/5.6** - ※<sub>1</sub> **P** - ※<sub>2</sub>

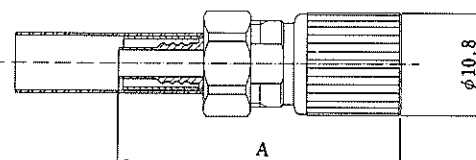
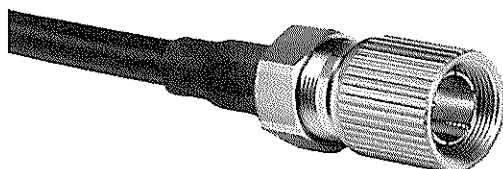


<Letters indicating mating system>

- A or none : Screw coupling,
- B : Push-on
- C : Plug-in

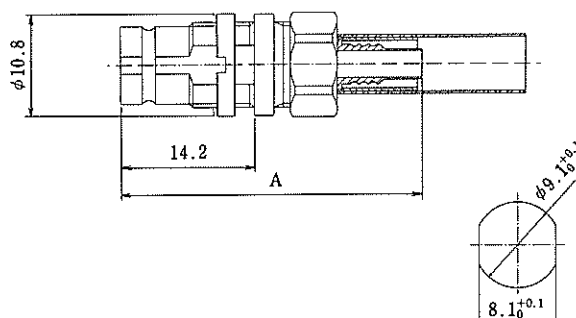
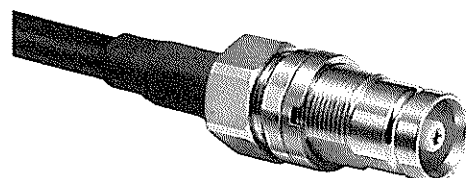
## Plug

| HRS No.         | Part No.               | Applicable cable | Connecting tool           | Dimension "A" |
|-----------------|------------------------|------------------|---------------------------|---------------|
| CL313-0329-7-40 | MRF(1.6/5.6)-P-3C(40)  | 3C-2V, 3C-2WS    | HT303/MRF(1.6/5.6)-T-1    | 26.2          |
| CL313-0393-6-40 | MRF1.6/5.6-AP-2.5C(40) | 2.5C-2V          | HT303/HRM-T-4(58A/U hole) | 30            |
| CL313-0397-7-40 | MRF1.6/5.6-AP-59U(40)  | RG-59/U          | HT303/MRF(1.6/5.6)-T-1    | 26.2          |



## Panel jack

| HRS No.         | Part No.               | Applicable cable | Connecting tool           | Dimension "A" |
|-----------------|------------------------|------------------|---------------------------|---------------|
| CL313-0394-9-40 | MRF1.6/5.6-PJ-2.5C(40) | 2.5C-2V          | HT303/HRM-T-4(58A/U hole) | 32            |
| CL313-0398-0-40 | MRF1.6/5.6-PJ-59U(40)  | RG-59U           | HT303/MRF(1.6/5.6)T-1     | 28.2          |
| CL313-0399-2-40 | MRF1.6/5.6-PJ-179U(40) | RG-179/U         | HT303/UM-MSS-T-1(1.5hole) | 30.75         |



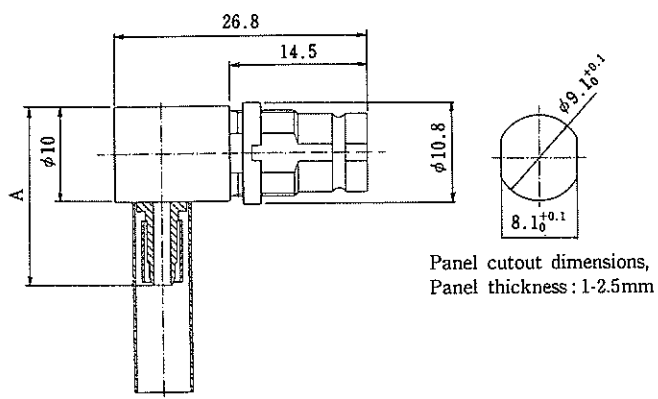
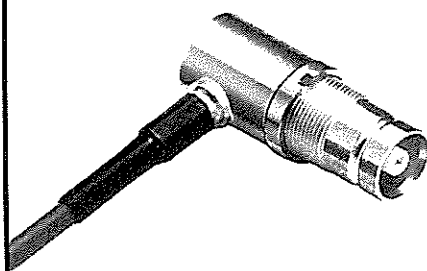
Panel cutout dimensions,  
Panel thickness : 1~2.5mm

# MRF1.6/5.6 SERIES

# RF CO-AXIAL CONNECTORS

## L-shaped panel jack

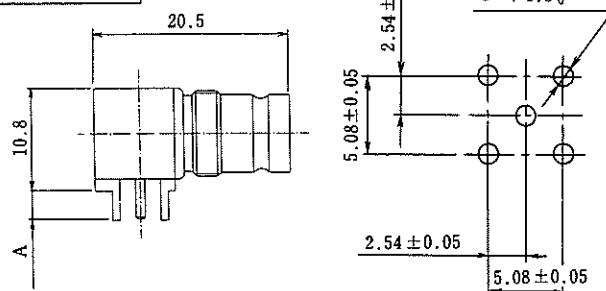
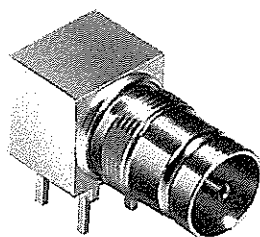
| HRS No.         | Part No.                | Applicable cable | Connecting tool      | Dimension "A" |
|-----------------|-------------------------|------------------|----------------------|---------------|
| CL313-0395-1-40 | MRF1.6/5.6-LPJ-179U(40) | RG-179/U         | UM-MSS-T-1(1.5 hole) | 18.75         |



Panel cutout dimensions,  
Panel thickness : 1-2.5mm

## L-shaped receptacle for PCB

| HRS No.         | Part No.               | Dimension "A" |
|-----------------|------------------------|---------------|
| CL313-0330-6-40 | MRF(1.6/5.6)-LR-PC(40) | 4.1           |
| CL313-0390-8-40 | MRF1.6/5.6-LR-PC-1(40) | 3.1           |



Mounting holes in PCB