

# P073 SERIES RF CO-AXIAL CONNECTORS

## Coaxial connectors for use with HRPI series and PCN11MF series P073 series

### Outline

P073 Series connectors are plug-in type high frequency coaxial connectors with a nominal impedance of  $75 \Omega$  which are optimum for packaging of terminal units of microwave digital system communication networks such as for public telecommunication circuits. (NTT Specification in accordance with Spec. 5488, edition 2.) Some of the parts  $50 \Omega$  are available as Hirose original connectors.



### Characteristic features

- (1) P073 Series connectors are used as composite connectors in combination with the HRP1 Series and the PCN11MF Series, and are suitable for high density packaging.  
(Coaxial connectors and optical connectors can be used in the same connector housing.)
- (2) Excellent connecting characteristics and mechanical durability are realized by applying the floating function to coaxial and optical connectors and connector housing.
- (3) Coaxial connectors (plug) incorporated in the connector housing can be detached in one-core unit where the connector housing is coupled. This detachment can be made without tools by sliding the snap-out ring attached to the coaxial connectors.

### Applications

Communication equipment, transmission and exchange units.

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## Performance

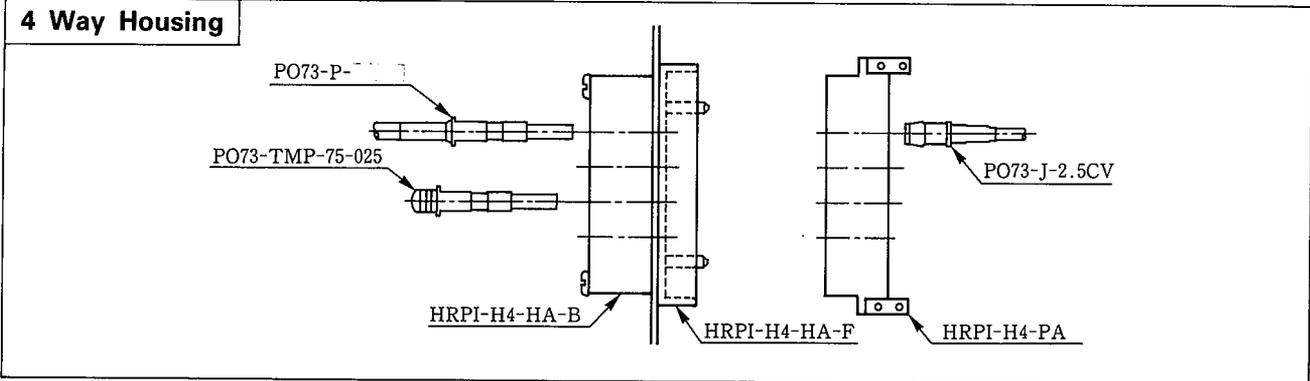
| Item                     | Standard value                |                               |
|--------------------------|-------------------------------|-------------------------------|
|                          | PO73 series                   | PO73D series                  |
| Contact resistance       | 20mΩ or less                  |                               |
| Insulation resistance    | 1000MΩ or more at 500 VDC     |                               |
| Withstand voltage        | 1000VAC(rms) for 1 min        |                               |
| Characteristic impedance | 75Ω                           | 50Ω                           |
| Mismatching attenuation  | 40dB or more at 70±10MHz      | —                             |
| VSWR                     | 1.2 or less at up to 1,000MHz | 1.2 or less at up to 1,500MHz |

## Material/Finish

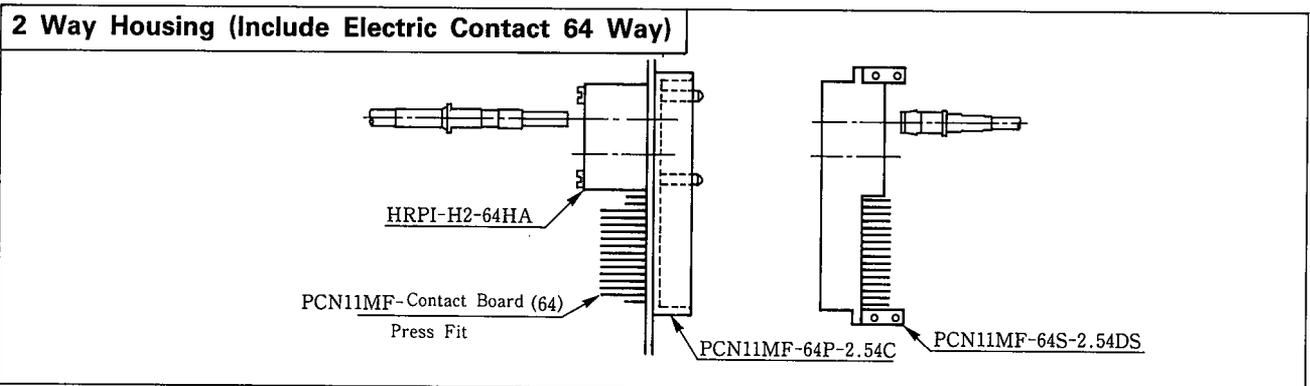
| Part                 | Brass            | Finish                       |
|----------------------|------------------|------------------------------|
| P shell, A shell     | Brass            | Gold-plated                  |
| J shell              | Brass            | Gold-plated cable connection |
| Insulation           | PTFE resin       |                              |
| Male terminal        | Phosphor         | Gold-plated                  |
| Female terminal      | Beryllium copper | Gold-plated                  |
| Shap-out ring        | Brass            | Nickel-plated                |
| Crimp sleeve         | Copper           | Nickel-plated                |
| Housing              | PBT resin        |                              |
| Heat shrinkable tube | Polyolefin       |                              |

## Function

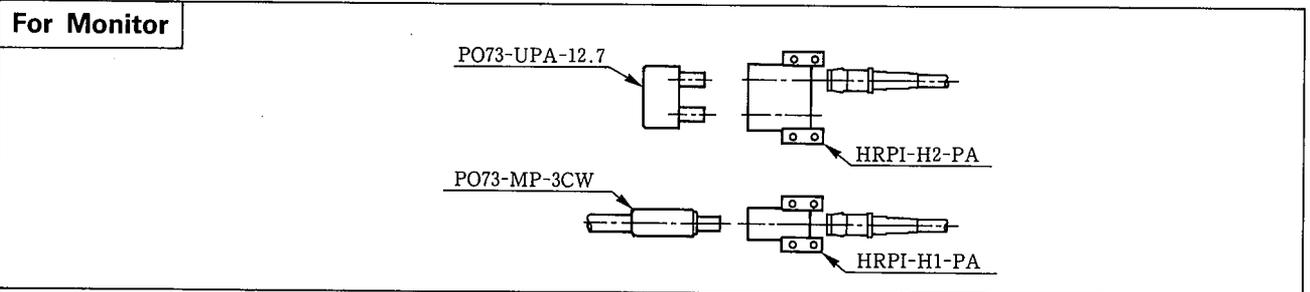
### 4 Way Housing



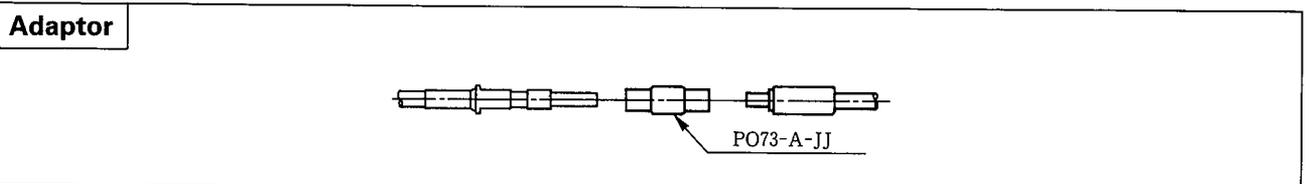
### 2 Way Housing (Include Electric Contact 64 Way)



### For Monitor

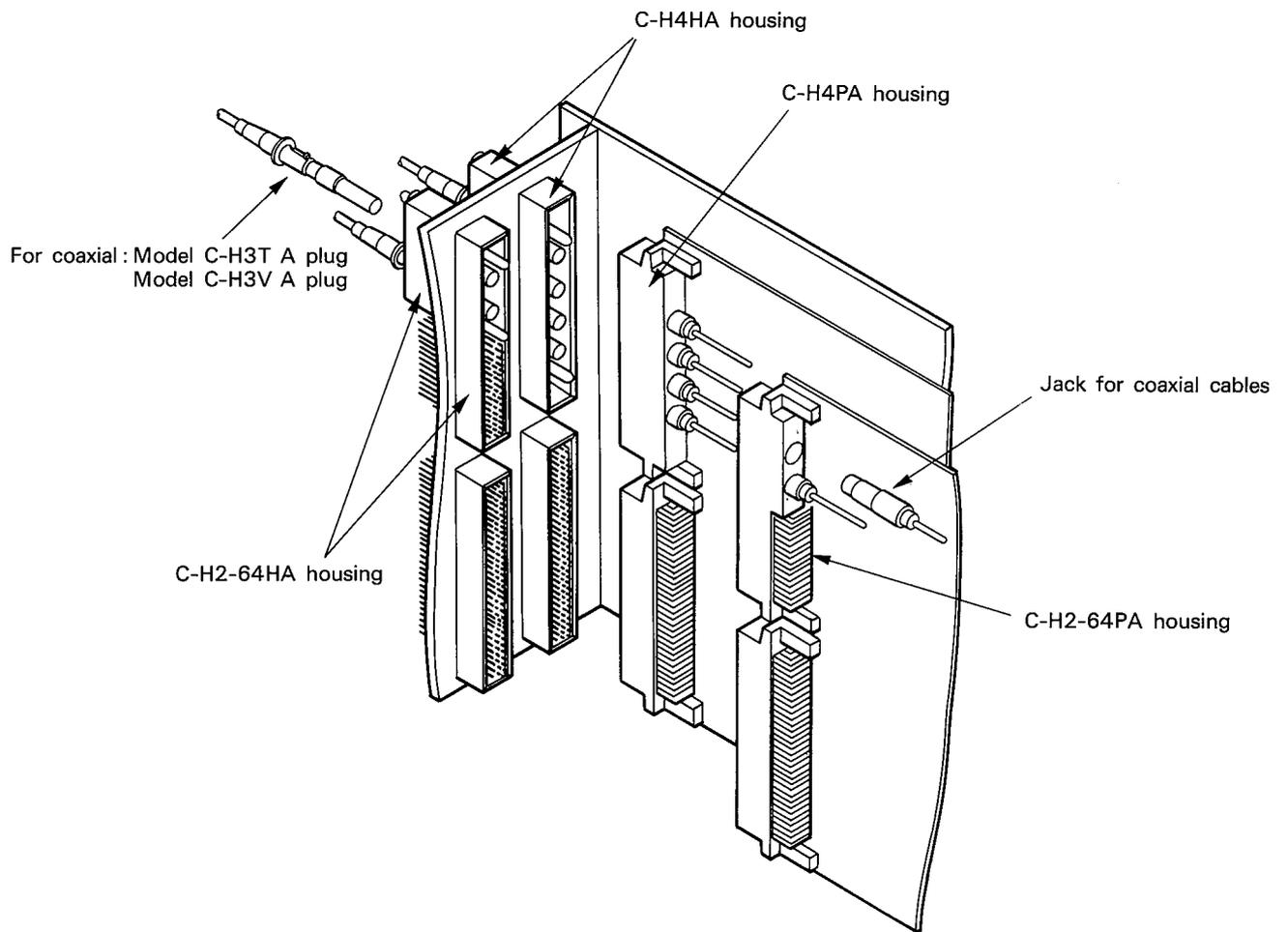


### Adaptor



# P073 SERIES RF CO-AXIAL CONNECTORS

## View of Mounted Connector

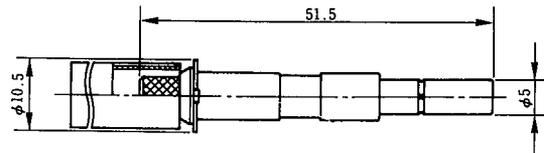
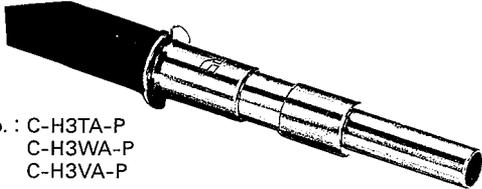


# PO73 SERIES RF CO-AXIAL CONNECTORS

## ▲ Plug

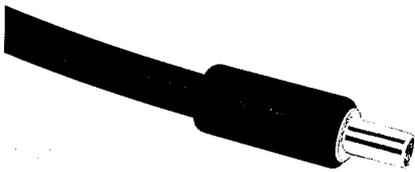
| HRS No.      | Product No.   | Applicable cable | Characteristic impedance | Dimension A (mm) |
|--------------|---------------|------------------|--------------------------|------------------|
| CL312-0110-3 | PO73-P-3CT    | 3C-2T            | 75 $\Omega$              | 51.5             |
| CL312-0111-6 | PO73-P-3CW    | 3C-2W            |                          | 51.5             |
| CL312-0130-0 | PO73-P-3CV    | 3C-2V            |                          | 51.5             |
| CL312-0113-1 | PO73-P-2.5CV  | 2.5C-2V          |                          | 54.7             |
| CL312-0131-3 | PO73D-P-2.5DW | 2.5D-2W          | 50 $\Omega$              | 56.0             |

NTT part No. : C-H3TA-P  
C-H3WA-P  
C-H3VA-P

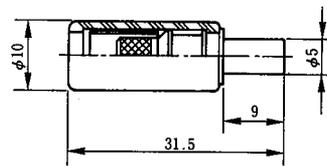


## ▲ Monitor Plug

| HRS No.      | Product No. | Applicable cable | Characteristic impedance |
|--------------|-------------|------------------|--------------------------|
| CL312-0112-9 | PO73-MP-3CW | 3C-2W            | 75 $\Omega$              |

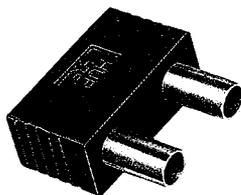


NTT Part No. : C-H3W-MP

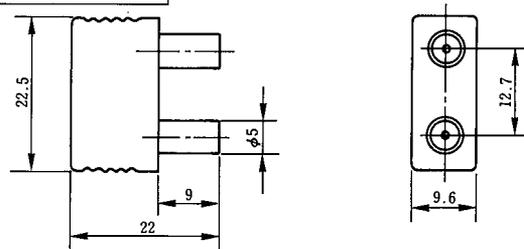


## ▲ U Link Plug

| HRS No.      | Product No.   | Characteristic impedance |
|--------------|---------------|--------------------------|
| CL312-0114-4 | PO73-UPA-12.7 | 75 $\Omega$              |

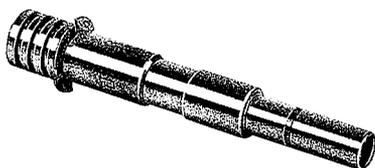


NTT Part No. : C-H3C-UP

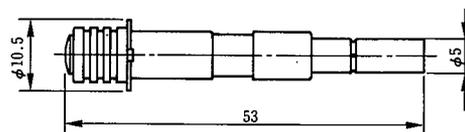


## ▲ Termination

| HRS No.      | Product No.     | Characteristic impedance |
|--------------|-----------------|--------------------------|
| CL312-0118-5 | PO73-TMP-75-025 | 75 $\Omega$              |



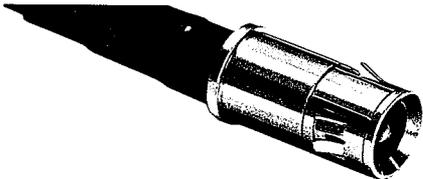
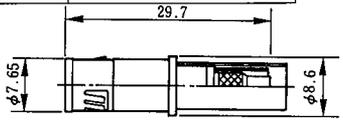
NTT Part No. : C-H3C-TRM



# PO73 SERIES RF CO-AXIAL CONNECTORS

## ▲ Jack

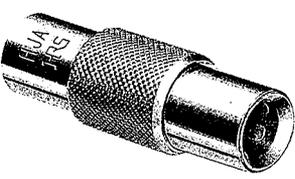
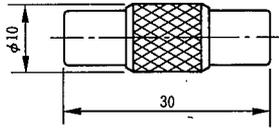
| HRS No.      | Product No.   | Applicable cable | Characteristic impedance |
|--------------|---------------|------------------|--------------------------|
| CL312-0126-3 | PO73-J-2.5CV  | 2.5C-2V          | 75 Ω                     |
| CL312-0115-7 | PO73-J-1.5CV  | 1.5C-2V          |                          |
| CL312-0136-7 | PO73D-J-1.5DW | 1.5D-2W          | 50 Ω                     |
| CL312-0137-0 | PO73D-J-2.5DW | 2.5D-2W          |                          |
| CL312-0146-0 | PO73D-J-0.8DW | 0.8D-2W          |                          |

※ The housings for Jack that are slightly different in form from maker to maker are available. Please use HIROSE products to avoid the quality trouble.

## ▲ Adapter

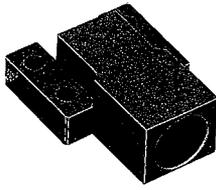
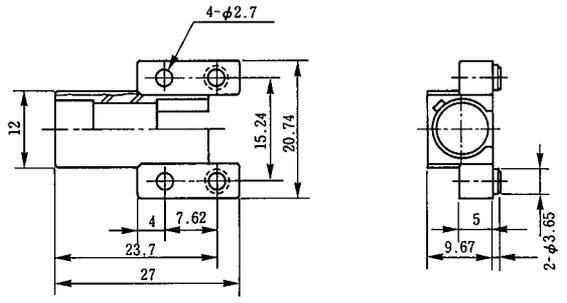
| HRS No.      | Product No. | Characteristic impedance |
|--------------|-------------|--------------------------|
| CL312-0119-8 | PO73-A-JJ   | 75 Ω                     |

NTT Part No. : C-H3C-JA

## ▲ Connector Housing for Monitor

| HRS No.      | Product No. |
|--------------|-------------|
| CL312-0117-2 | HRPI-H1-PA  |

| HRS No.      | Product No. |
|--------------|-------------|
| CL312-0116-0 | HRPI-H2-PA  |

