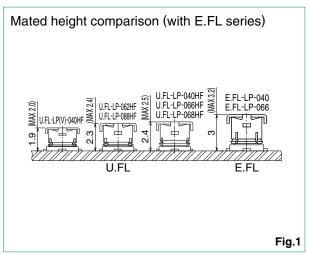
# Ultra Small Surface Mount Coaxial Connectors - 1.9mm or 2.3mm, 2.4mm Mated Height

#### **U.FL** Series



# Up to 6GHz



#### ■Features

- 1. Nominal mated height of 1.9 or 2.3mm, 2.4mm (Max. 2.0 or 2.4mm, 2.5mm)(Fig.1)
- 2. Small mounting area

The receptacle occupies an area of 7.7mm<sup>2</sup>.

3. Light weight

Receptacle: 15.7mg

# 4. Supports high frequency up to 6GHz

To meet the frequency requirements of a wide variety of miniature devices, the connectors offer high frequency performance from DC to 6GHz, with a V.S.W.R. of 1.3 to 1.5 max.

#### 5. Automatic board placement

Packaged on tape-and-reel the receptacles can be placed with vacuum nozzles of the automatic placement equipment.

## 6. Plugs are terminated with ultra-fine coaxial (fluorinated resin insulated) cable

Standard ultra-fine coaxial cable of 0.81mm diameter (single braid shielding) is used for the plug termination, assuring secure and stable connections.

#### 7. Simple connector mating / unmating

Use of available extraction tool assures correct disconnection of the plug and receptacle.

#### 8. Verification of the fully mated condition

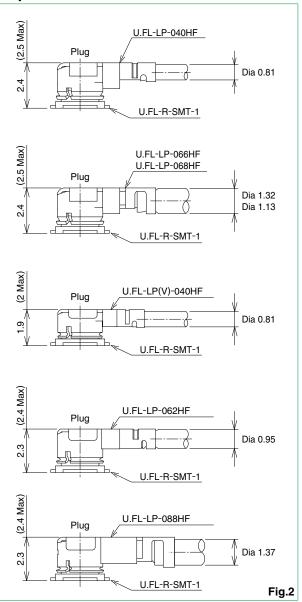
Tactile click sensation confirms fully mated condition, assuring complete electrical and mechanical connection.

## Halogen-free\*(Receptacle,plug(HF type))

\*As defined by IEC61249-2-21

Br-900 ppm maximum, Cl-900 ppm maximum, CI+Br combined-1,500 ppm maximum

# ●Space Factor of Mated Connector

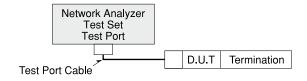


# **■**Product Specifications

| Ratings       | Nominal characte |   | 50Ω                | Operating temperature range | -40°C to +90°C                                     | Storage temperature range  | -30°C to +70°C |  |  |
|---------------|------------------|---|--------------------|-----------------------------|--|--|----------------|--|--|
| 9-            | Frequency ra     | nge   | DC to 6GHz         | Operating humidity          | 90%RH max.   | Storage humidity   | 90%RH max.     |  |  |
| Item          |                  | Specification                                   |                    |                             |  | Conditions   |                |  |  |
| 1. Contact    | resistance       | Center : 20mΩ max. Outer : 10mΩ max.            |                    |                             | 10mA max.  |  |                |  |  |
| 2. Insulation | on resistance    | 500MΩ min.                                      |                    |                             | 100V DC  |  |                |  |  |
| 3. Withstar   | nding voltage    | No flashover                                    | or insulation bre  | akdown.                     | 200V AC / 1 r                                      | minute   |                |  |  |
|               |                  |   | Part N             | lo.                         | Up to 3  | 3GHz 3   | to 6GHz        |  |  |
|               |                  | U.FL-LP-040H                                    | HF dia.0.81mm (    | Coaxial Cable Assembly      | 1.3 N  | Max 1.   | 35 Max         |  |  |
|               |                  | U.FL-LP(V)-04                                   | 40HF dia.0.81mn    | n Coaxial Cable Assembly    | 1.3 N  | Max 1  | .3 Max         |  |  |
| 4. V.S.W.F    | ₹.*              | U.FL-LP-068H                                    | HF dia.1.13mm (    | Coaxial Cable Assembly      | 1.3 N  | Max 1  | .4 Max         |  |  |
|               |                  | U.FL-LP-066HF dia.1.32mm Coax                   |                    | Coaxial Cable Assembly      | 1.3 N  | Max 1  | 1.5 Max        |  |  |
|               |                  | U.FL-LP-062HF dia.0.95mm Coaxial Cable Assembly |                    |                             | 1.3 N  | 1.3 Max  |                |  |  |
|               |                  | U.FL-LP-088HF dia.1.37mm Coaxial Cable Assembly |                    |                             | 1.3 N  | 1.3 Max 1.4 Max  |                |  |  |
| 5. Durabilit  | ,                | Contact resistance                              |                    |                             |  |  |                |  |  |
| (mating       | / un-mating,     | Center : 25mg                                   |                    |                             | 30 cycles  |  |                |  |  |
| with cor      | responding       | Outer : 15mΩ max.                               |                    | 30 Cycles                   |  |  |                |  |  |
| plug)         |                  | Outer . ISIN                                    | z IIIax.           |                             |  |  |                |  |  |
|               |                  |   |                    |                             | Frequency: 10 to 100Hz, single amplitude of 1.5mm, |  |                |  |  |
| 6. Vibration  | n                | No alcotrical                                   | discontinuity of 1 | ue min                      | acceleration of                                    | acceleration of 59m/s <sup>2</sup> , for 5 cycles in the direction of each |                |  |  |
|               |                  |   | cracks or parts d  | •                           | of the 3 axis.                                     |  |                |  |  |
| 7. Shock      |                  | ivo damage, d                                   | cracks or parts u  | isiocation.                 | Acceleration                                       | Acceleration of 735m/s <sup>2</sup> , 11ms duration, sine half-            |                |  |  |
| 7. SHOCK      |                  |   |                    |                             | wave wavefor                                       | wave waveform, 3 cycles in each of 3 axes.                                 |                |  |  |
| 0 11          |                  | No damage, o                                    | cracks or parts d  | islocation.                 |  |  |                |  |  |
| 8. Humidit    | ,                | Insulation res                                  | istance 10MΩ m     | in.(humidity high)          | 96 hours at te                                     | 96 hours at temperature of 40°C and humidity of 95%.                       |                |  |  |
| (Steady       | state)           | Insulation res                                  | istance 500MΩ r    | min.(dry)                   |  |  |                |  |  |
|               |                  | No damage, o                                    | cracks or parts d  | islocation.                 | Temperature :                                      | Temperature : -40°C→+5 to +35°C→+90°C→+5 to +35°C                          |                |  |  |
| 9. Tempera    | ature cycle      | Contact resist                                  | tance : 25mΩ ma    | ax. (Center)                | Time: 30min. → 3min. → 30min. → 3min.              |  |                |  |  |
|               | -                |   |                    | ax. (Outer)                 | 5 cycles   |  |                |  |  |
| 10. Salt sp   | oray             | No excessive                                    | corrosion          |                             | 5% salt water                                      | solution, 48 hours   |                |  |  |

\*V.S.W.R. Measurement System

The above V.S.W.R. standard values were measured using the measurement connection shown below.



- Note 1 : Cable type connectors were measured with SMA conversion adapters attached to both ends of the harness product of a suitable 100cm cable.
- Note 2 : Board type connectors were mounted to a  $50\Omega$  glass epoxy board and measurements were conducted with SMA conversion adapters attached.

## ■Material / Finish

## Plug-right angle

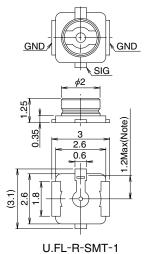
| Part                  | Material                 | Finish/Remarks                            |  |
|-----------------------|--------------------------|---|--|
| Shell                 | Phosphor bronze          | Silver plated                             |  |
| Insulator             | PBT, Color : Gray        | UL94HB (LP (V) -040HF)                    |  |
| insulator             | LCP, Color : Milky-white | UL94V-0(040HF,066HF, 068HF, 062HF, 088HF) |  |
| Female center contact | Phosphor bronze          | Gold plated                               |  |

## Receptacle

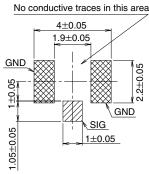
| Part                | Material                 | Finish/Remarks |
|---------------------|--------------------------|----------------|
| Shell               | Phosphor bronze          | Silver plated  |
| Insulator           | LCP, Color : Milky-white | UL94V-0        |
| Male center contact | Brass                    | Gold plated    |

# ■Receptacles





# **●** Recommended PCB **Mounting Pattern** No conductive traces in this area



| Part No.         | HRS No.       | Packaging       | Weight / EA |
|------------------|---------------|-----------------|-------------|
| U.FL-R-SMT-1(01) | 331-0472-2 01 | 100 pcs/pack    |             |
| U.FL-R-SMT-1(60) | 331-0472-2 60 | 4,000 pcs/reel  | 15.7/mg     |
| U.FL-R-SMT-1(80) | 331-0472-2 80 | 10,000 pcs/reel |             |

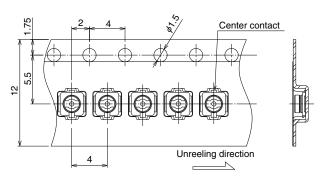
Note: This area may be covered by insulating material.

## ● Embossed Carrier Tape Dimensions(IEC 60286-3 compliant)

#### **Embossed Carrier Tape Dimensions**

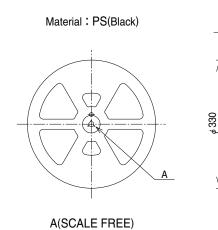
# Center contact 5.5

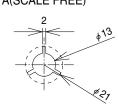
U.FL-R-SMT-1(60): 8mm pitch



U.FL-R-SMT-1(80): 4mm pitch

#### **Reel Dimensions**





13.5

# **■**Cable Assembly (Plug)



|                         | U.FL-LP-040HF                 | U.FL-LP-066HF<br>U.FL-LP-068HF           | U.FL-LP(V)-040HF(06)       | U.FL-LP-062HF(06)          | U.FL-LP-088HF(06)          |
|-------------------------|-------------------------------|--|----------------------------|----------------------------|----------------------------|
| Part No.<br>Size        | 86                            | 86-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | 3.4                        | 1.8                        | 88                         |
| Mated Height            | 2.5mm Max.<br>(2.4mm Nom.)    | 2.5mm Max.<br>(2.4mm Nom.)               | 2.0mm Max.<br>(1.9mm Nom.) | 2.4mm Max.<br>(2.3mm Nom.) | 2.4mm Max.<br>(2.3mm Nom.) |
| Applicable cable        | Dia. 0.81mm                   | Dia. 1.13mm and Dia. 1.32mm              | Dia. 0.81mm                | Dia. 0.95mm                | Dia. 1.37mm                |
| Weight (mg)             | 54                            | 59                                       | 35                         | 45.5                       | 72                         |
| Environmental compliant | Halogen-free, RoHS2 compliant |  |                            |                            |                            |

# **●Cable Guide**

|               | Cable | Cable Specification |            |              |            |  |           |            |
|---------------|-------|---------------------|------------|--------------|------------|--|-----------|------------|
| Description   |       | Inner               | Dielectric | Outer        | Jacket     | Flame Retardant                        | Nominal a | ttenuation |
|               | Туре  | Conductor*          | Diameter   | Conductor*   | Diameter   | Grade                                  | At 3GHz   | At 6GHz    |
| Dia.0.81mm    | 04    | 7/0.05 SA           | Dia.0.4mm  | Single       | Dia.0.81mm |  | 5.4dB/m   | 8.0dB/m    |
| Coaxial Cable | 04    | (AWG#36)            | FEP        | Shield TA    | FEP        |  | 5.406/111 | 8.006/111  |
| Dia.1.13mm    | 000   | 7/0.08 SA           | Dia.0.68mm | Single       | Dia.1.13mm |  | 0.7040/   | 5.44dD/m   |
| Coaxial Cable | 068   | (AWG#32)            | FEP        | Shield TA    | FEP        |  | 3.73dB/m  | 5.44dB/m   |
| Dia.1.32mm    | 000   | 7/0.08 SA           | Dia.0.66mm | Double       | Dia.1.32mm |  | 0.040/    | E 04D/     |
| Coaxial Cable | 066   | (AWG#32)            | FEP        | Shield TA    | FEP        | \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 3.8dB/m   | 5.6dB/m    |
| Dia.0.95mm    | 000   | 7/0.071 SA          | Dia.0.62mm | Tape, single | Dia.0.95mm | VW-1                                   | 0.4.40/   | 4.440/     |
| Coaxial Cable | 062   | (AWG#33)            | FEP        | Shield TA    | FEP        |  | 3.1dB/m   | 4.4dB/m    |
| Dia.1.37mm    | 000   | 7/0.102 SA          | Dia.0.88mm | Single       | Dia.1.37mm |  | 0.040/    | 4.0 - 10 / |
| Coaxial Cable | 088   | (AWG#30)            | FEP        | Shield TA    | FEP        |  | 2.8dB/m   | 4.3dB/m    |
| Dia.1.37mm    | 000   | 7/0.102 SA          | Dia.0.88mm | Tape, Single | Dia.1.37mm |  | 0. E dD/  | 0.440/     |
| Coaxial Cable | 088   | (AWG#30)            | FEP/PTFE   | Shield TA    | FEP        |  | 2.5dB/m   | 3.4dB/m    |

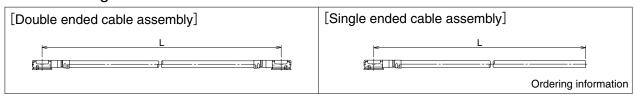
[Plugs can be ordered only as terminated cable assemblies.]

<sup>(</sup>data as provided by cable suppliers, for reference only) \* SA : Silver plated annealed copper wire, TA : Tin plated annealed copper wire

# ■The Procedure for ordering patch cord

Please select the specifications in 3 steps. No need product name for ordering patch cords.

## STEP 1 : Single end or both ends



## STEP 2: Cable and mating height

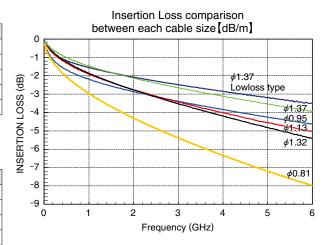
|     |                 |               | _             |
|-----|-----------------|---------------|---------------|
| No. | Jacket diameter | Cable color   | Mating height |
| 1   | Dia. 1.37mm     | Gray / Black  | 2.3mm         |
| 2   | Dia. 1.32mm     | Gray / Black  | 2.4mm         |
| 3   | Dia. 1.13mm     | Gray / Black  | 2.4mm         |
| 4   | Dia. 0.95mm     | Gray / Black  | 2.3mm         |
| 5   | Dia. 0.81mm     | White / Black | 2.4mm / 1.9mm |

# STEP 3 : Cable length (mm)

#### Standard tolerances for (L)

| (L)(mm)            | Standard tolera(mm) |
|--------------------|---------------------|
| *L=35 to 200       | <u>±</u> 4          |
| L=201 to 500       | ±8                  |
| L=501 to 1000      | ±12                 |
| L=Longer than 1000 | ±1.5% of (L)        |

Note: Minimum available length(L) is 35mm.



# ■Patch cord name example

Please specify the red text part.



Cable length : STEP 3 Cable type: STEP 2

Double ended or single ended: STEP 1

Series name

#### STEP 1

[Double ended]

[Single ended]

U.FL-2LPHF6-04N1TV-A-300

U.FL-LPHF6-04N1TV-A-300

#### STEP 2

1 Cable-mating height

[Dia. 1.37 cable (088 cable)]

088 is listed in the third block representing the cable type.

U.FL-2LPHF6-088N1T-A-300

[Dia. 1.32 cable (066 cable)]

066 is listed in the third block representing the cable type.

U.FL-2LPHF6-066N1-A-300

[Dia. 1.13 cable (068 cable)]

068 is listed in the third block representing the cable type.

U.FL-2LPHF6-068N1T-A-300

[Dia. 0.95 cable (062 cable)]

062 is listed in the third block representing the cable type.

U.FL-2LPHF6-062N1D-A-300

[Dia. 0.81 cable (040 cable)]

04 is listed in the third block representing the cable type. When the height is 1.9mm, V enters affer LP. Dot does not needed for U.FL series name.

U.FL-2LPHF6-04N1TV-A-300 : Mating height 2.4mm UFL-2LPVHF6-04N1TV-A-300 : Mating height 1.9mm

#### STEP 3

Cable length is written in millimeters at the end.

EX:300mm

U.FL-2LPHF6-088N1T-A-300

#### 2 Cable color

~Except Dia. 0.81 cable~

[Gray]

1 is listed in the third block representing the cable type.

U.FL-2LPHF6-062N1D-A-300 [Black]

2 is listed in the third block representing the cable type.

U.FL-2LPHF6-062N2D-A-300

~Dia. 0.81 cable~

[White]

1 is listed in the third block representing the cable type.

U.FL-2LPHF6-04N1TV-A-300 [Black]

2 is listed in the third block representing the cable type.

U.FL-2LPHF6-04N2TV-A-300

# **■**Conversion Adapters

#### SMA Conversion Adapter (Mating portion: U.FL side jack - SMA side plug)



Note: The U.FL side mating portions has a lower lock retention force than the regular product, therefore, cannot be used for purposes other than performance measurements.

#### SMA Conversion Adapter (Mating portion: U.FL side plug - SMA side jack)



Note: The U.FL side mating portions has a lower lock retention force than the regular product, therefore, cannot be used for purposes other than performance measurements.

#### SMA Conversion Adapter (Mating portion: U.FL side plug - SMA side jack)



Note : This connector is used by compressing the mated portion of U.FL side onto the U.FL-R-SMT-1 portion.

# ■Receptacle to Inspection



This receptacle is used for inspecting the continuity, withstand voltage, and other aspects of the harness product.

# Plug Extraction Tool

This tool is used for extraction from a mating condition.

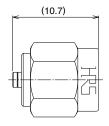


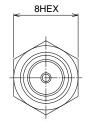
Note: Part No. U.FL-LP-N-2 for U.FL-LP-040HF/066HF/088HF/068HF. Part No. U.FL-LP(V)-N-2 for U.FL-LP(V)-040HF/U.FL-LP-062HF.

# Plug Insertion Tool

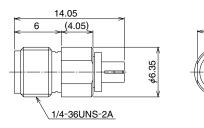
This tool is for mating U.FL series plug into receptacle.



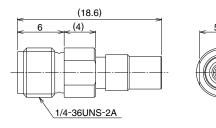




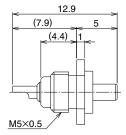
| Part No.       | HRS No.       |
|----------------|---------------|
| HRMP-U.FLJ(40) | 311-0300-2 40 |

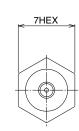


| Part No.       | HRS No.       |
|----------------|---------------|
| HRMJ-U.FLP(40) | 311-0301-5 40 |

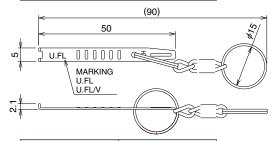


| Part No.           | HRS No.       |
|--------------------|---------------|
| HRMJ-U.FLP-ST1(40) | 311-0385-5 40 |

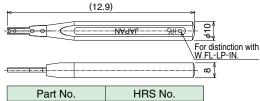




| Part No. | HRS No.    |
|----------|------------|
| U.FL-R-1 | 331-0466-0 |



| Part No.       | HRS No.    |
|----------------|------------|
| U.FL-LP-N-2    | 331-0494-5 |
| U.FL-LP(V)-N-2 | 331-0493-2 |

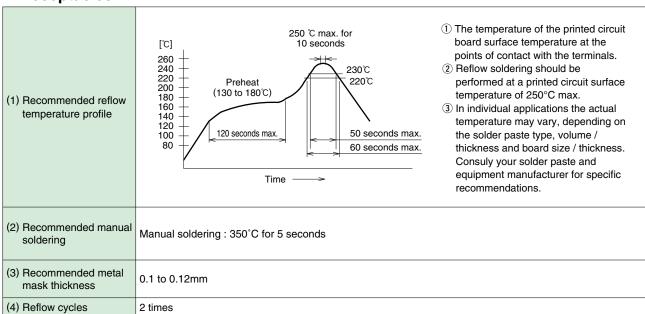


# **●** Usage Precautions

# 1. Plugs

| (1) Mating / unmating                                    | 1) To disconnect connectors, insert the end portion of U.FL-LP-N-2 and U.FL-LP(V)-N-2 under the connector flanges and pull off vertically, in the direction of the connector mating axis.  2) To mate the connectors, the mating axes of both connectors must be aligned and the connectors can be mated. The "click" will confirm fully mated connection.Do not attempt to insert on an extreme angle.    Connector flanges and U.FL-LP(V)-N-2 under the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically, in the direction of the connector flanges and pull off vertically flanges and pull off vertically flanges and pull off vertically flanges and pull off ve |  |
|--|---|--|
| (2) Pull forces on the cable after connectors are mated. | After the connectors are mating, do not apply a load to the cable in excess of the values indicated in the diagram below.  U.FL-LP Cable Assembly  1N max (U.FL-LP(V)-040HF, U.FL-LP-062HF) 2N max (U.FL-LP-040HF, U.FL-LP-066HF, U.FL-LP-068HF, U.FL-LP-088HF)   |  |
| (3) Precautions  | Do NOT forcefully twist or deform wires.  |  |

# 2. Receptacles



# 3. Operating environment and storage conditions

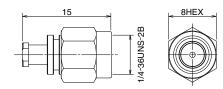
|                           | The connectors are not designed to operate in the following environments :  |
|---------------------------|---|
|                           | Exposed to a excessive amounts of fine particles and dust   |
| (1) Operating environment | Regions and places having a high density of sulfur dioxide, hydrogen sulfide, nitrogen dioxide or other corrosive |
|                           | gasses.   |
|                           | Environments having large rapid variations in temperature.  |
|                           | Store in the Hirose Electric packaging.   |
| (2) Storage conditions -  | Temperature : -10 to +40°C, Humidity : 85% max.   |
| • •                       | Use within 6 months of delivery.  |
| Receptacle                | Receptacles for which the storage period has elapsed must be tested for solderability to the PC board             |
|                           | mounting surface.   |

# ■SMA cable type

SMA

# ●Straight Plug

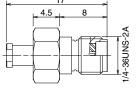




| Part No.           | HRS No.       | Applicable cable         |
|--------------------|---------------|--------------------------|
| HRM-200-040PBN(40) | 323-0790-3 40 | Dia. 0.81 type           |
| HRM-200-066PBN(40) | 323-0791-6 40 | Dia. 1.13, Dia.1.32 type |
| HRM-200-088PBN(40) | 323-0800-5 40 | Dia. 1.37 type           |

# Straight Jack







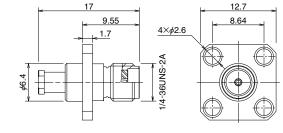
 $5.9_{-0}^{+0.1}$ 

8HEX

| Part No.           | HRS No.       | Applicable cable         |
|--------------------|---------------|--------------------------|
| HRM-200-040JBN(40) | 323-0792-9 40 | Dia. 0.81 type           |
| HRM-200-066JBN(40) | 323-0793-1 40 | Dia. 1.13, Dia.1.32 type |
| HRM-200-088JBN(40) | 323-0801-8 40 | Dia. 1.37 type           |

## ● Panel mount Jack (Four Screws)

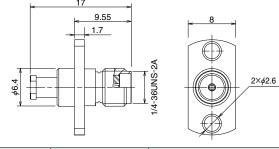




| Part No.             | HRS No.       | Applicable cable         |
|----------------------|---------------|--------------------------|
| HRM-200-040PJ4BN(40) | 323-0795-7 40 | Dia. 0.81 type           |
| HRM-200-066PJ4BN(40) | 323-0796-0 40 | Dia. 1.13, Dia.1.32 type |
| HRM-200-088PJ4BN(40) | 323-0803-3 40 | Dia. 1.37 type           |

# ● Panel mount Jack (Two Screws)

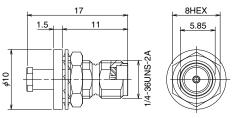




| Part No.             | HRS No.       | Applicable cable         |
|----------------------|---------------|--------------------------|
| HRM-200-040PJ2BN(40) | 323-0794-4 40 | Dia. 0.81 type           |
| HRM-200-066PJ2BN(40) | 323-0788-1 40 | Dia. 1.13, Dia.1.32 type |
| HRM-200-088PJ2BN(40) | 323-0802-0 40 | Dia. 1.37 type           |

# ● Panel mount Jack (Bulkhead)



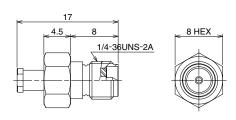


| Part No.             | HRS No.       | Applicable cable         |
|----------------------|---------------|--------------------------|
| HRM-200-040BPJBN(40) | 323-0797-2 40 | Dia. 0.81 type           |
| HRM-200-066BPJBN(40) | 323-0798-5 40 | Dia. 1.13, Dia.1.32 type |
| HRM-200-088BPJBN(40) | 323-0804-6 40 | Dia. 1.37 type           |

## **Reverse polarity SMA**

## Straight Jack

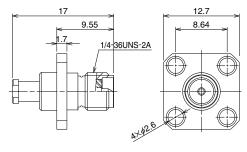




| Part No.          | HRS No.    | Applicable cable         |
|-------------------|------------|--------------------------|
| SMA(R)-200-040JBN | 323-0926-3 | Dia. 0.81 type           |
| SMA(R)-200-066JBN | 323-0931-3 | Dia. 1.13, Dia.1.32 type |
| SMA(R)-200-088JBN | 323-0904-0 | Dia. 1.37 type           |

# ● Panel mount Jack (Four Screws)

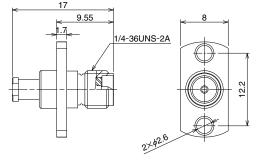




| Part No.            | HRS No.    | Applicable cable         |
|---------------------|------------|--------------------------|
| SMA(R)-200-040PJ4BN | 323-0928-9 | Dia. 0.81 type           |
| SMA(R)-200-066PJ4BN | 323-0932-6 | Dia. 1.13, Dia.1.32 type |
| SMA(R)-200-088PJ4BN | 323-0934-1 | Dia. 1.37 type           |

## Panel mount Jack (Two Screws)

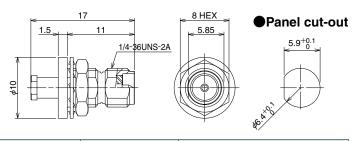




| Part No.            | HRS No.    | Applicable cable         |
|---------------------|------------|--------------------------|
| SMA(R)-200-040PJ2BN | 323-0929-1 | Dia. 0.81 type           |
| SMA(R)-200-066PJ2BN | 323-0933-9 | Dia. 1.13, Dia.1.32 type |
| SMA(R)-200-088PJ2BN | 323-0935-4 | Dia. 1.37 type           |

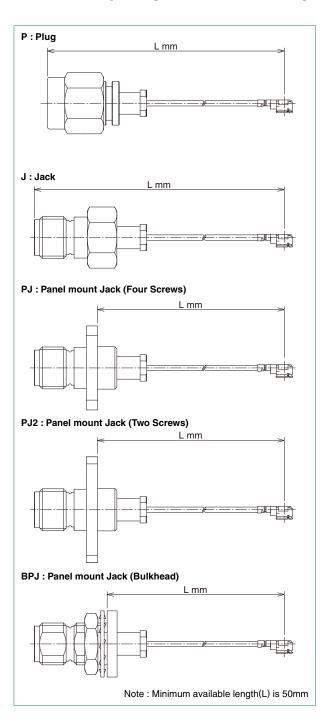
## Panel mount Jack (Bulkhead)



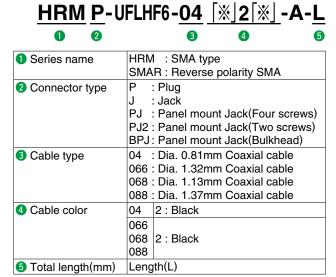


| Part No.            | HRS No.    | Applicable cable         |
|---------------------|------------|--------------------------|
| SMA(R)-200-040BPJBN | 323-0927-6 | Dia. 0.81 type           |
| SMA(R)-200-066BPJBN | 323-0902-5 | Dia. 1.13, Dia.1.32 type |
| SMA(R)-200-088BPJBN | 323-0901-2 | Dia. 1.37 type           |

# ■How To Specify Cable Assembly



# Ordering information

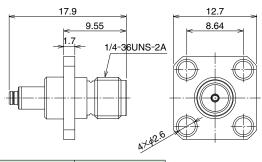


# ■SMA conversion adapter

SMA

## Panel mount adapter (Four Screws)

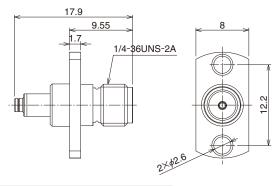




| Part No.       | HRS No.    |
|----------------|------------|
| HRMJ-U.FLJ-PA4 | 311-0465-2 |

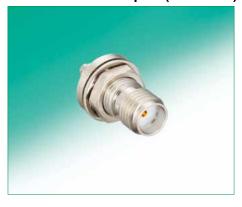
# Panel mount adapter (Two Screws)

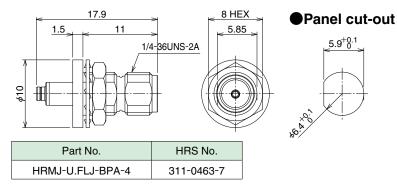




| Part No.       | HRS No.    |
|----------------|------------|
| HRMJ-U.FLJ-PA2 | 311-0467-8 |

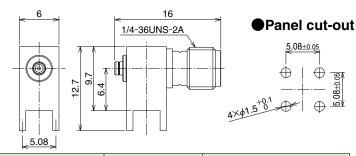
## Panel mount adapter (Bulkhead)





#### PCB mount adapter



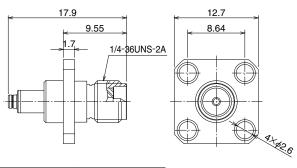


| Part No.          | HRS No.       | Finish        |
|-------------------|---------------|---------------|
| HRMJ-U.FLJ-PC     | 311-0411-3    | Nickel plated |
| HRMJ-U.FLJ-PC(01) | 311-0411-3 01 | Gold plated   |

#### **Reverse polarity SMA**

#### ●Panel mount adapter (Four Screws)

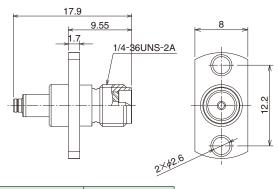




| Part No.          | HRS No.    |
|-------------------|------------|
| SMA(R)J-U.FLJ-PA4 | 311-0466-5 |

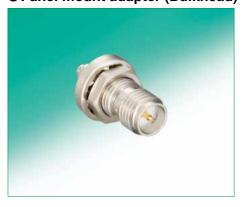
#### Panel mount adapter (Two Screws)

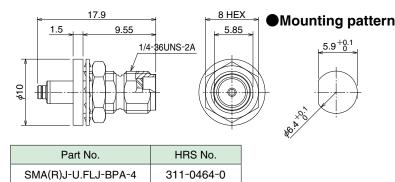




| Part No.          | HRS No.    |
|-------------------|------------|
| SMA(R)J-U.FLJ-PA2 | 311-0468-0 |

#### Panel mount adapter (Bulkhead)







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