

(RA1P011FP3)

(RA1R011HA1)

Outline

The RA1 Series is an integrated connector incorporating signal contacts and a coaxial contact compliant with the requirements for connector "A" for IMT-2000 mobile phones. Connector "A" was standardized for the IMT-2000 interface by the EIAJ.

Features

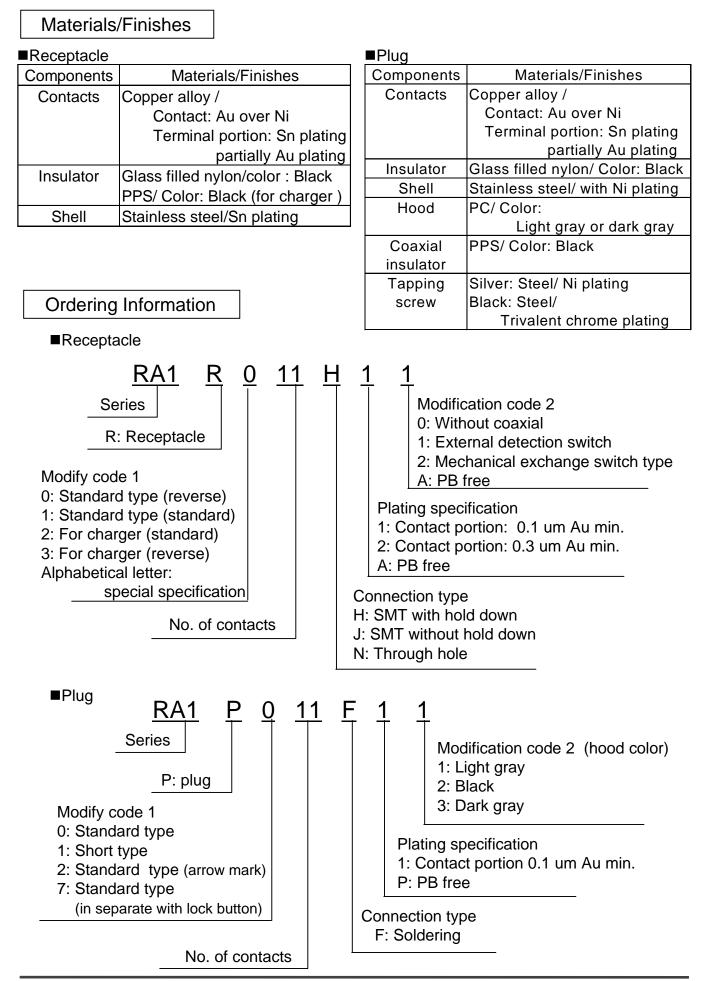
- Compliant with EIAJ RC-5238 Connector "A" for IMT-2000 mobile phones. (Integrated connector with 10 signal contacts and 1 coaxial contact.)
- Smaller and lighter than the DH Series, connector for digital mobile phones. (0.5mm signal contact pitch, volume ratio is 1/3 for receptacle, 1/2 for plug (compared to the JAE products.))
- Static electricity countermeasure and EMI shield provided by a metal shell for signal transmission connector.
- Both receptacle and plug use full-cover shells for the mating area, and a mechanism to prevent opening of the shells.
- Compatible with live insertion/ removal (sequence) by providing contacts of different length in receptacle.
- Signal contacts are compatible with high-speed transmission. (Compatible with USB 1.1)
- Coaxial contact in receptacle compatible with operating frequency up to 2.2GHz.
- Embossed tape supply ensuring 6mm x 6mm adhesion area for receptacle is available.

General Specifications

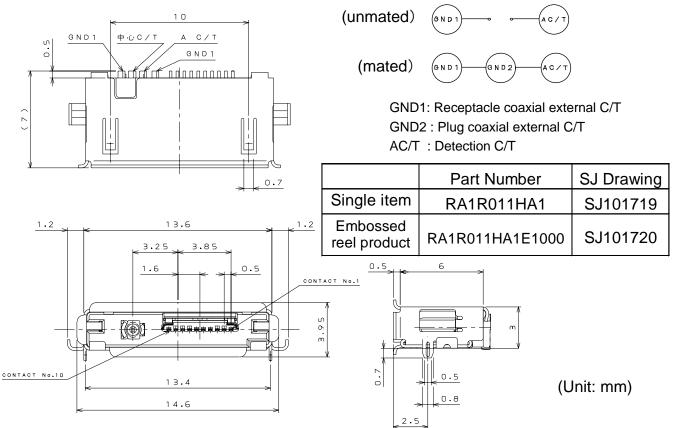
- ■No. of contacts:11 (including1 coaxial.)
- ■Rated voltage: AC 30Vr.m.s.
- Contact resistance: Initial 50m ohm max.
- Withstand voltage: Signal contacts: AC 300Vr.m.s. per minute Coaxial contacts: AC 100Vr.m.s. per minute
- ■VSWR: Less than 1.5 (Up to 2.2GHz)
- ■Insertion loss: 0.5dB max. (Up to 2.2GHz)
- ■Operating temperature & humidity: -25 to +70 Deg. C, 85% max.

- Rated current: Less than DC 0.5A (1.0A for 5 terminals max. ---Note)
- Insulation resistance: 1000M ohm min. Signal contacts: AC 300Vr.m.s. Coaxial contacts AC 100Vr.m.s.
- ■Electrostatic capacity: 2pF max.
- ■Life time: 10,000 times
- ■Applicable cable:
 - Up to AWG #28 for signal contacts Equivalent to 1.5D for coaxial contact

(Note) "5 terminals" indicates terminals 1, 4, 5, 6, and 10

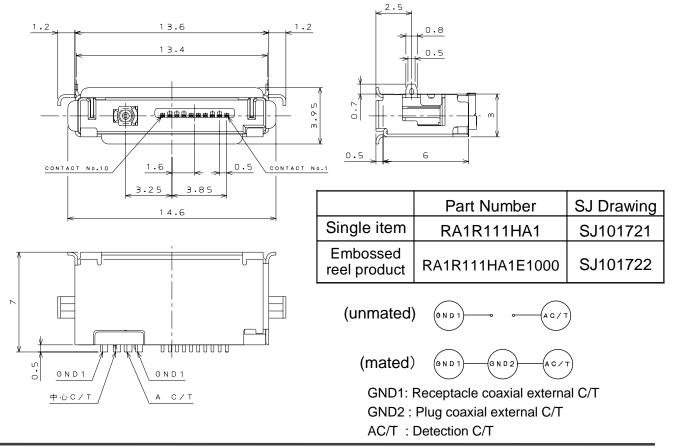


RA1R011HA1 (Standard receptacle: external detection switch/ bottom mount type)

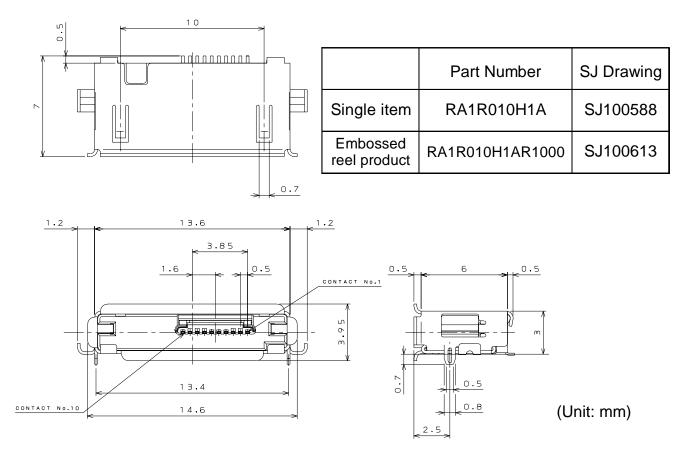


Part Number

RA1R111HA1 (Standard receptacle: external detection switch/ top-mount type)

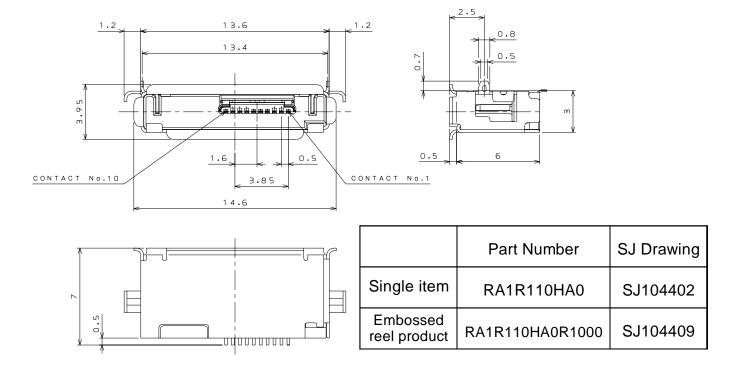


RA1R010H1A (Receptacle for signal : without coaxial/ bottom mount type)

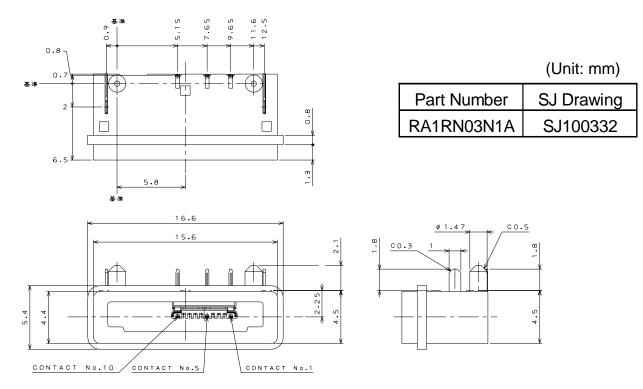


Part Number

RA1R110HA0 (Receptacle for signal: without coaxial/ top-mount type)

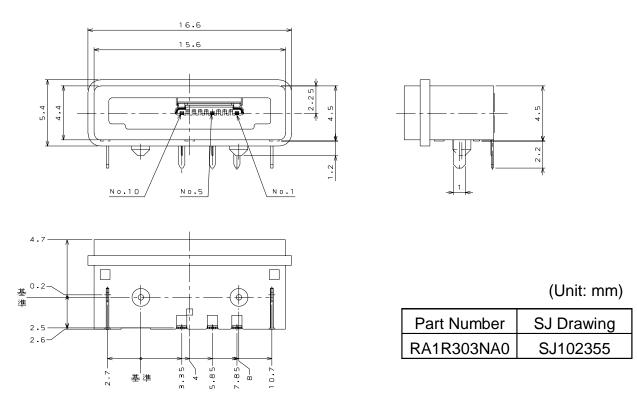


RA1RN03N1A (Receptacle for charger: top-mount through hole type)



Part Number

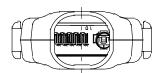
RA1R303NA0 (Receptacle for charger: bottom mount through hole type)

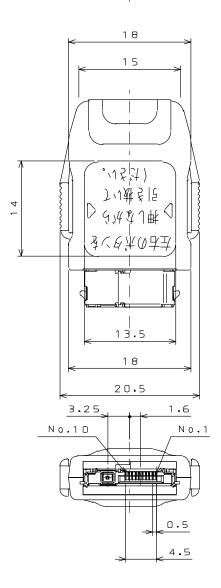


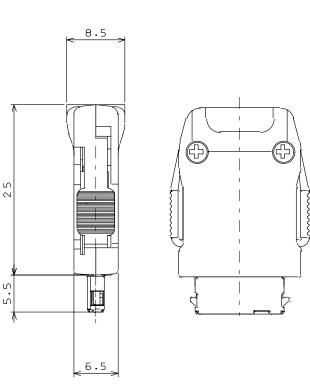
RA1P011FP* (Standard plug/ solder connection type)

Applicable wire: AWG#28 max. Applicable cable diameter: 5.0 mm dia. max.

Coaxial cable: 1.5D equivalent







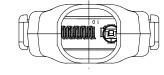
(Unit: mm)

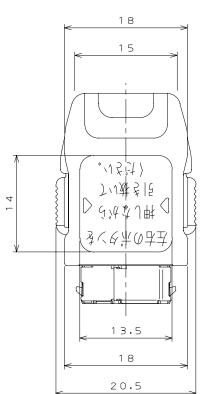
| Hood Color | Part Number | SJ Drawing | |
|------------|-------------|------------|--|
| Light gray | RA1P011FP1 | SJ101712 | |
| Black | RA1P011FP2 | SJ101713 | |

Note: This product does not include bushing and clamp barrel.

RA1P711FP* (Standard plug: in separate with lock button/ soldering connection type)

Applicable wire: AWG#28 max. Coaxial cable: 1.5D equivalent





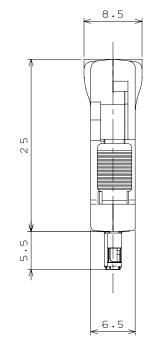
3.25

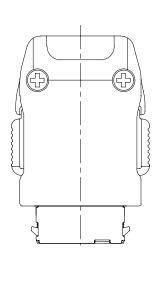
N 0.10

<u>1.6</u> No.1

0.5

4.5





Applicable cable diameter: 5.0 mm dia. max.



SJ Drawing

SJ103245

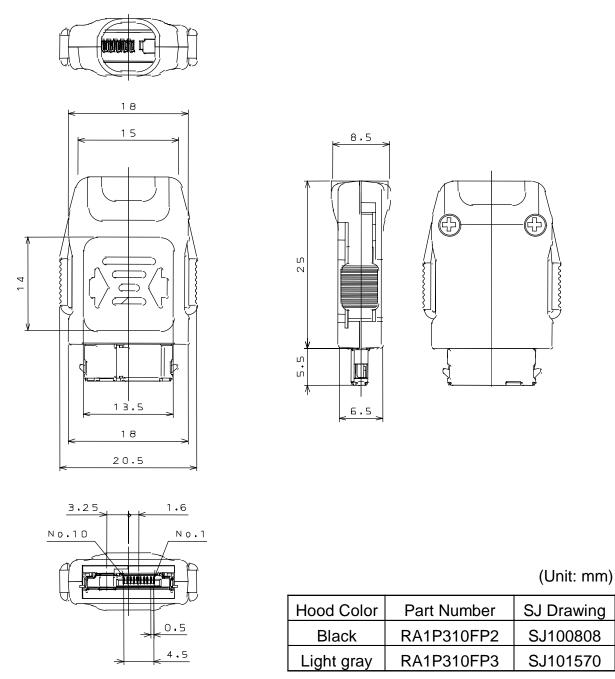
SJ103246

| Hood Color | Part Number |
|------------|-------------|
| Light gray | RA1P711FP1 |
| Black | RA1P711FP2 |
| | |

Note: This product does not include bushing and clamp barrel.

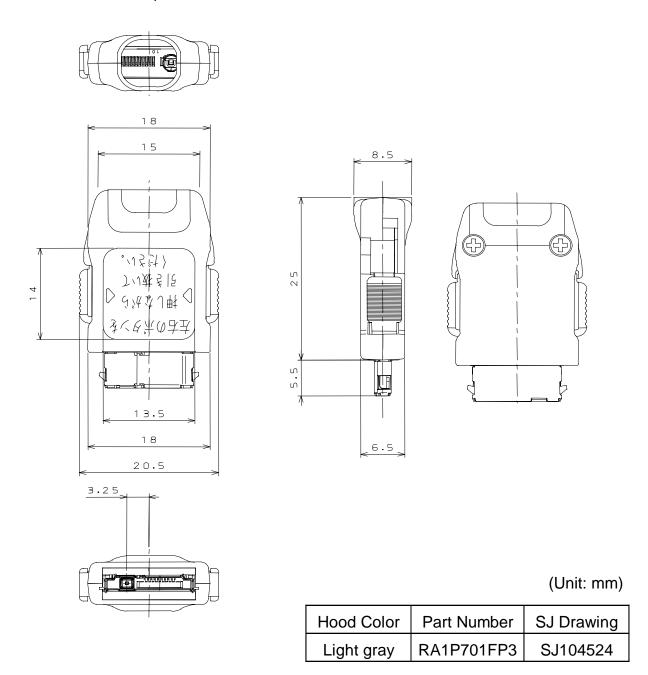
RA1P310FP※ (Standard plug: arrow mark type/ soldering connection type)

Applicable wire: AWG#28 max. Applicable cable diameter: 5.0 mm dia. max.



Note: This product does not include bushing and clamp barrel.

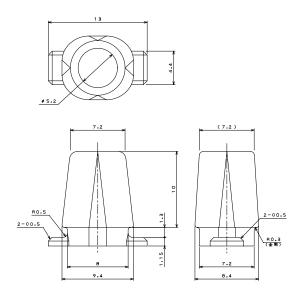
RA1P701FP* (Standard plug: in separate with lock button, single contact coaxial type) Coaxial cable: 1.5D equivalent



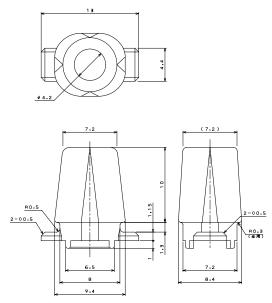
Note: This product does not include bushing and clamp barrel.

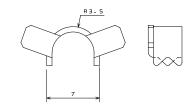
Bushing/ Clamp barrel (for Standard plug)

• for Cable diameter 5mm dia.

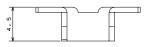


• for Cable diameter 4mm dia.





R3,5

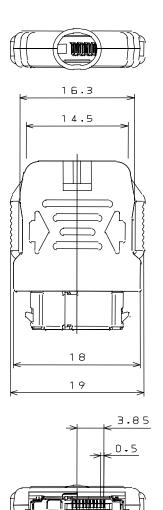


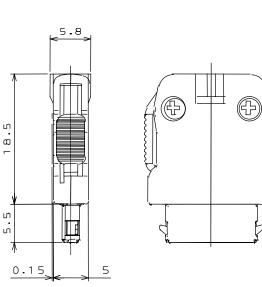
| | Bushing | | | Applicable clamp | Rivet hand tool for |
|--------|------------|----------------|------------|------------------|---------------------|
| | Color | Part Number | SJ Drawing | barrel | clamp barrel |
| for | Light gray | R012-50612 | SJ035694 | 026-50837 | CT150-6-RH07 |
| 5 dia. | Dark gray | R012-50612-001 | SJ035695 | | |
| for | Light gray | R012-50611 | SJ035693 | 026-50843 CT1 | CT150-6B-RH07 |
| 4 dia. | Black | R012-50616 | SJ036094 | | CT150-0B-R1107 |

Note: Please refer to below, regarding hand tools and handling instructions. CT150-6-RH07 --- Handling Instructions: T700116 CT150-6B-RH07 --- Handling Instructions: T700160

RA1P110FP* (Short plug for data communication/ soldering connection type)

Applicable wire: AWG#28 max. Applicable cable diameter: 3.6 mm dia. max.





(Unit: mm)

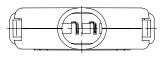
| Hood Color | Part Number | SJ Drawing | |
|------------|-------------|------------|--|
| Light gray | RA1P110FP1 | SJ101452 | |
| Dark gray | RA1P110FP3 | SJ101453 | |

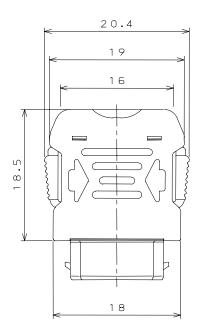
Note: Bushing for this product is cable mold-in type.

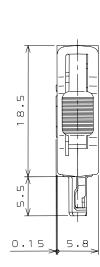
RA1P203F1*-A (3 contact plug for short type charger/ soldering connection type)

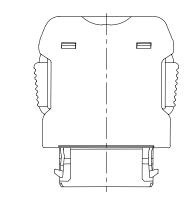
Applicable wire: AWG#28 max.

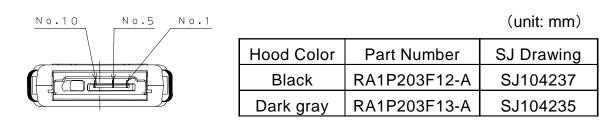
Applicable cable diameter: 3.6 mm dia. max.











Note: Bushing for this product is cable mold-in type.

Please refer to Handling Instruction JAHL-3281 regarding connection, assembly process, bushing portion design and dimensions.

Japan Aviation Electronics Industry, Limited

Product Marketing Division Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539 Phone: +81-3-3780-2787 FAX: +81-3-3780-2946 **Notice:** Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information. Recommended applications: computers, office

machines, measuring devices, telecommunication devices (terminals, mobile devices), AV devices, household applications, FA devices, etc.

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