

Disconnectable Crimp style connectors



The RF connector was developed as a highly reliable, low-cost, crimp style connector for connecting wires to printed circuit boards. Well suited for internal connections in office automation equipment, such as personal computers, office computers and their peripheral devices.



Features ———

• Highly reliable, yet low in cost

Our original double-leaf spring construction withstands the stresses caused by repeated insertions and withdrawals and ensures reliable contact performance. Depending on the application, the socket contacts and header posts can be selectively gold-plated or fully tin-plated to minimize costs.

• Space-saving, high-density design

The 2.54mm pitch contacts are arranged in two rows. The mated connectors can be placed side by side or end to end without a loss in pitch. This facilitates space-saving, high-density circuit designs.

Easy connection

A slight force is all that is required for contact insertion because the housing has resilient lances. Furthermore, the positions of the contacts in the housing can be visually checked. This facilitates insertion of the contacts in the housing.

 It can be cut to any length to provide a header with any number of circuits

Notches are provided on the insulator that allow it to be cut to any length without using special tools.

Specifications -

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: (including temperature rise in applying electrical current)
 - -55°C to +105°C (gold-plated)
 - -55°C to +85°C (tin-plated)
- Contact resistance: Initial value/15mΩ max. After environmental testing/30mΩ max.
- Insulation resistance: $1,000M\Omega$ min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 1.2 to 1.6mm
- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards —

- Recognized E60389
- ⑥ Certified LR20812

Contact -



	Applicable wire				0.4.
Model No.	mm ²	AWG #	Insulation O.D. (mm)	Finish	Q'ty / reel
RF-SC2210	0.05 to 0.22	30 to 24	0.9 to 1.5	Nickel-undercoated, Mating part: gold-plated Crimping part: tin-plated (reflow treatment)	10,000
RF-SC2290				Tin-plated (reflow treatment)	
	Material				
		Phos	phor bronze		

RoHS compliance RF-SC2210 displays (LF)(SN) on a label.

Housing -



No. of	Madal Na	Dimensio	Q'ty /	
circuits	Model No.	Α	В	box
6	RF-06	5.08	7.62	500
8	RF-08	7.62	10.16	500
10	RF-10	10.16	12.70	500
12	RF-12	12.70	15.24	500
14	RF-14	15.24	17.78	300
16	RF-16	17.78	20.32	300
20	RF-20	22.86	25.40	200
28	RF-28	33.02	35.56	200
		Material		
	F	PBT, UL94V-0, black		

Header -



RoHS compliance

Top entry type

Madel No.	Material		Finish	
Model No.	Wafer	Post	Finish	
RF-H(*) 2TD-1130	PBT, UL94V-0.	Brass	Nickel-undercoated, gold-plated	
RF-H(*) black 2TD-1190	Diaso	Copper-undercoated, tin-plated (reflow treatment)		

Side entry type

Model No.	Mat	erial	Finish
	Wafer	Post	Finish
RF-H(*) 2SD-1110	PBT, UL94V-0.	Brass	Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment)
RF-H(*) 2SD-1190	black	Diass	Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance Tin-plated product displays $(\mathsf{LF})(\mathsf{SN})$ on a label. Note:

 A two-digit number (02 to 60 even numbers only) representing the number of circuits should be inserted in (*).

Determine the number depending on the number of circuits of the housing or header.

2. Contact JST for special products.

Model No. Q'ty / bag PK-RF-1 10,000 Material PBT, UL94V-0, natural (white) RoHS compliance Polarizing key in the housing prevents misinsertion of the connector to the header.

PC board layout (viewed from soldering side) and Assembly layout -



Note:

1. Tolerances are non-cumulative: \pm 0.05mm for all centers.

2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Model number allocation -

Contact

	<u>RF</u> - SC 2210
Series name Form: S…Strip form	
Part name: C···Crimp style contact	
Applicable wire range: 2AWG #30 to #24	
Material: 2Phosphor bronze	
Surface finish of contact part: 10Gold-plated (Fla 90Tin-plated (reflo	

	<u>RF</u> - 06
Series name	

Header

	RF - H 34 2 TD - 1 1 30
Series name	
Part name: Hea	der
No. of circuits: I	Even number from 2 to 60
Mating side pos	t length: 6.0
PC board moun	ting method: TD···Top entry DIP type
	SD···Side entry DIP type
Header color: 1	··Black
Post material: 1	···Brass
Surface finish of	f post: 10Selective gold-plated (Flash)
	30Overall gold-plated (Flash)
	90…Tin-plated (reflow treatment)

Polarizing key

	<u> PK - RF - 1</u>	
Part name: Polarizing key		
Series name		

Crimping machine, Applicator —

Contact	Crimping	Applicator		
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies
RF-SC2210	AP-K2N	MKS-L	MK/RF-SC22	APLMK RF-SC22
RF-SC2290	AP-KZN	MIKS-L	MK/ KF-5022	APLINK RF-5022

Note: Contact JST for fully automatic crimping applicator.