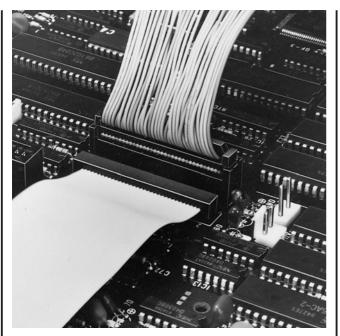
RA CONNECTOR (IDC)

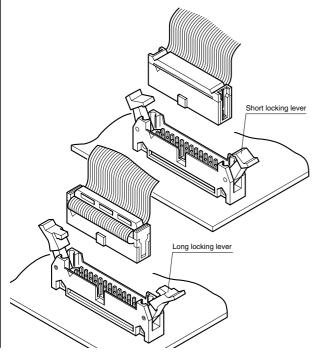
Disconnectable Insulation displacement connectors for 1.27mm pitch ribbon cables



JST IDC

54mm

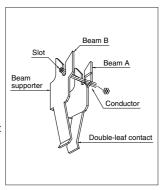
To keep pace with the rapid developments in electronics, internal and external connection systems are naturally increasing in density. At the same time, labor requirements and overall costs must be minimized. RA connectors meet all of these requirements, while providing increased reliability. These connectors, whose materials, shapes, dimensions, and surface treatments have been carefully selected, are based on the latest technological information that has been accumulated and improved over years of experience in crimping connection technology.



Features -

• Twin U-slot ID section

The twin U-slot is the most important IDC element in JST's RA connectors. As shown in the figure, wire conductors are connected between the slots of U-shaped parallel beams, and the distance between each adjacent pair of beams is designed to be one third of the pitch of wire strands.



• Two-die processing and selective gold plating

Two precision dies are used to blank and form the contacts. After the first die blanks the contacts, they are gold plated at crucial points. Then, the contacts are formed by the second die. This eliminates unnecessary gold-plating and overall costs are minimized. This innovation is another example of our industry-leading technology.

• Selective gold-plated posts

Header posts are also selectively gold-plated. While square wire material is used for production of conventional posts in loose pieces, continuous flat strip is used for production of our post in chain form. This allows selective gold-plating and provides cost reduction.

Cost-efficient

JST's unique technology allows it to produce connectors that are extremely reliable and cost-efficient.

Interchangeable cables and connectors

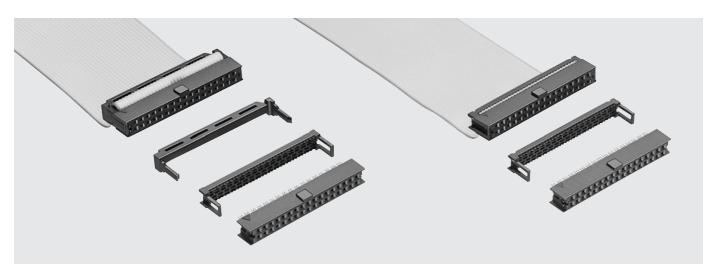
RA connectors fit commercially available 1.27mm pitch flat ribbon cables. A variety of ribbon cables are offered according to the purpose. Moreover, the RA series receptacles and header are interchangeable with the similar type of connectors commercially available. Contact JST before procuring cables and other manufacturer's mating connectors.

- * 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
- G: Certified LR20812

Receptacle



Specifications

Characteristics

Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to +125°C(gold-plated) -55°C to +105°C(tin-plated)
Contact resistance	Initial value/10mΩ max. (gold-plated) 40mΩ max. (tin-plated) After environmental testing/ 15mΩ max. (gold-plated) 50mΩ max. (tin-plated)
Insulation resistance	5,000MΩ min.
Withstanding voltage	500V AC/5 seconds
Applicable wire	AWG #28, 1.27mm pitch ribbon cable

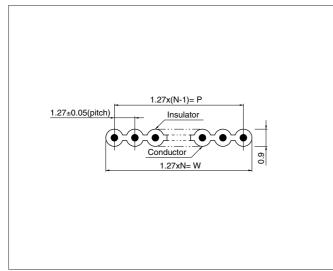
Materials

Contact	Phosphor bronze • Nickel-undercoated, selective gold-plated • Copper-undercoated, tin-plated (reflow treatment)
Receptacle housing	Glass-filled PBT, UL94V-0, black
Cover housing	Glass-filled PBT, UL94V-0, black
Strain relief	Glass-filled PBT, UL94V-0, black

*Contact JST for details.

Applicable cables

Ribbon cables conforming to the following specifications can be used with RA connector receptacles. Contact JST for details.

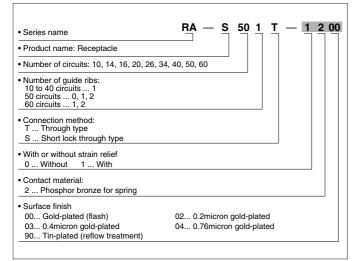


No.of	Dimensional tolerance (mm)		
conductors (n)	Р	W	
10 to 14	±0.18	±0.3	
16 to 26	±0.28	±0.3	
34 to 60	±0.38	±0.3	

Conductor	Construction: 7/0.127mm dia. Material: Tin-plated annealed copper wire
Conductor	AWG #28 solid wire Construction: 0.32mm dia. Material: Tin-plated annealed copper wire
Insulator	Soft vinyl chloride

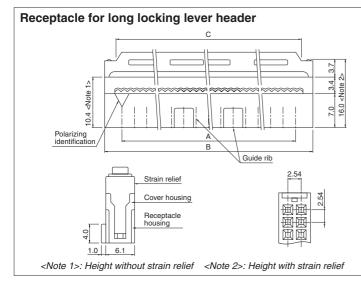
Note: N --- Number of circuits

Model number identification

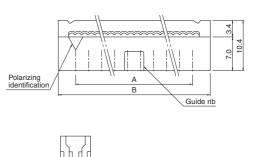


Note:

The standard gold-plated type is identified by the suffix number [-1200], but this suffix number is usually omitted. The gold-plated type identified by [-0200] is indicated by [-0] for short. Other types must be identified by the full code number. Special types do not conform to the above coding system.



Receptacle for short locking lever header



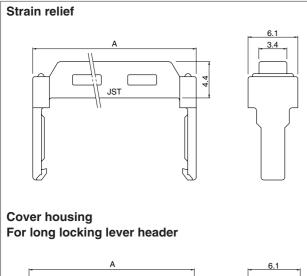


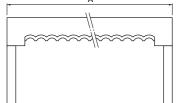
				Model No.			Dimensions (mm)			
Cir-	Cir- cuits Type of cover housing	No.of guide			Tin-plated				Q'ty /	
cuits		ribs	With strain relief	Without strain relief	receptacles (With strain relief)	A	В	С	box	
10		1	RA-S101T	RA-S101T-0	RA-S101T-1290	10.16	17.30	13.00	300	
14		1	RA-S141T	RA-S141T-0	RA-S141T-1290	15.24	22.38	18.08	200	
16	Long type	1	RA-S161T	RA-S161T-0	RA-S161T-1290	17.78	24.92	20.62	200	
20		1	RA-S201T	RA-S201T-0	RA-S201T-1290	22.86	30.00	25.70	150	
26			RA-S261T	RA-S261T-0	RA-S261T-1290	30.48	37.62	33.32	150	
34	Short type	- 1	-	RA-S341S-0	-	40.64	47.78	—	100	
34	Long type		RA-S341T	RA-S341T-0	RA-S341T-1290			43.48		
40	Long type	1	RA-S401T	RA-S401T-0	RA-S401T-1290	48.26	55.40	51.10	100	
	Short type	1	—	RA-S502S-0	—			—	75	
50		0	RA-S500T	RA-S500T-0	RA-S500T-1290	60.96	68.10			
50	Long type	1	RA-S501T	RA-S501T-0	RA-S501T-1290	00.90	00.10	63.80	75	
		2	RA-S502T	RA-S502T-0	RA-S502T-1290					
	Short type	1	-	RA-S602S-0	-			—		
60	Long tupo		RA-S601T	RA-S601T-0	RA-S601T-1290	73.66	80.80	76.50	75	
	Long type	Long type	2	RA-S602T	RA-S602T-0	RA-S602T-1290			78.50	

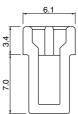
RoHS compliance Tin-plated products display (LF)(SN) on a label.

Strain relief and cover housing -

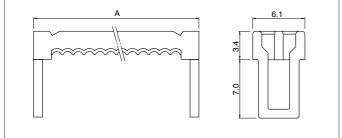
Indicate the Model No. shown below when ordering strain relief and cover separately.







Cover housing For short locking lever header

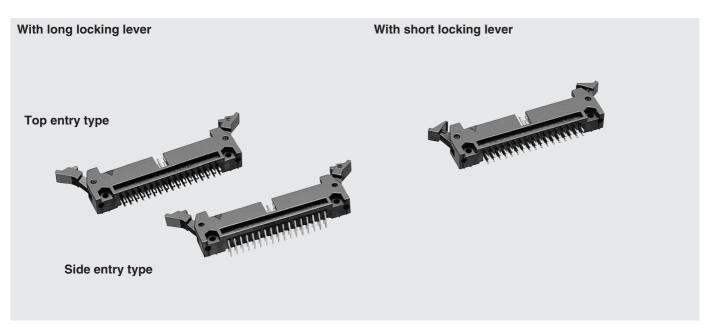


	Model No.			Dimensions (mm)	
Cir- cuits	Strain relief	Cover housing		•	
ouno	Strain relief	Long type	Short type	A	
10	RA-SR10T-1	RA-CH10T	—	17.30	
14	RA-SR14T-1	RA-CH14T	_	22.38	
16	RA-SR16T-1	RA-CH16T	_	24.92	
20	RA-SR20T-3	RA-CH20T	_	30.00	
26	RA-SR26T-3	RA-CH26T	—	37.62	
34	RA-SR34T-3	RA-CH34T	RA-CH34S	47.78	
40	RA-SR40T-3	RA-CH40T	—	55.40	
50	RA-SR50T-3	RA-CH50T	RA-CH50S	68.10	
60	RA-SR60T-1	RA-CH60T	RA-CH60S	80.80	

RoHS compliance Note: 1. Color: Black

2. When ordering Strain relief or Cover housing only, refer to the above Model Nos.

Shrouded header -



Specifications

Characteristics

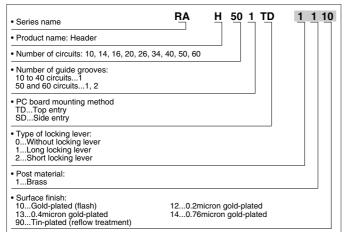
Current rating	1.0A AC, DC
Voltage rating	300V AC, DC
Temperature range	(including temperature rise in applying electrical current) -55°C to+125°C(gold-plated) -55°C to+105°C(tin-plated)
Insulation resistance	5,000M Ω min.
Withstanding voltage	500V AC/5 seconds
Applicable PC board thickness	1.6mm

Materials and Finish

Post	 Brass Nickel-undercoated Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Copper-undercoated, tin-plated (reflow treatment)
Housing	Glass-filled PBT, UL94V-0, black

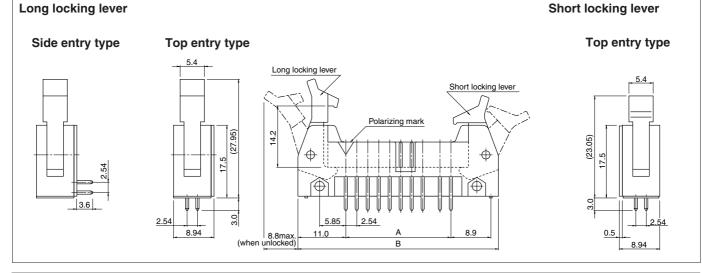
Note: Contact JST for details.

Model number identification



Note:

The standard gold-plated type is identified by the suffix number [-1110], but this suffix number is usually omitted. Other types must be identified by the full code number. Special types do not conform to the coding system in the left.



			Model No.				Dimensions (mm)		
Cir- cuits			(With locking lever)		Tin-plated header (With locking lever)		А	В	Q'ty / box
	10101	9.00100	Top entry type	Side entry type	Top entry type	Side entry type			
10		1	RA-H101TD	RA-H101SD	RA-H101TD-1190	RA-H101SD-1190	10.16	32.16	50
14		1	RA-H141TD	RA-H141SD	RA-H141TD-1190	RA-H141SD-1190	15.24	37.26	50
16	Long type	1	RA-H161TD	RA-H161SD	RA-H161TD-1190	RA-H161SD-1190	17.78	39.78	50
20		1	RA-H201TD	RA-H201SD	RA-H201TD-1190	RA-H201SD-1190	22.86	44.86	50
26		1	RA-H261TD	RA-H261SD	RA-H261TD-1190	RA-H261SD-1190	30.48	52.48	25
34	Short type Long type	- 1	*RA-H341TD-2110	_	-	—	40.04	00.04	05
34			RA-H341TD	RA-H341SD	RA-H341TD-1190	RA-H341SD-1190	40.64	62.64	25
40	Short type		*RA-H401TD-2110	_	-	—	40.00	70.00	05
40	Long type		RA-H401TD	RA-H401SD	RA-H401TD-1190	RA-H401SD-1190	48.26	70.26	25
	Short type		*RA-H501TD-2110	_	-	—			
50		- 1	*RA-H501TD	*RA-H501SD	*RA-H501TD-1190	*RA-H501SD-1190	60.96	82.96	25
	Long type 2	2	RA-H502TD	RA-H502SD	RA-H502TD-1190	RA-H502SD-1190			
	Short type 1		*RA-H601TD-2110	—	-	—			
60		*BA-H601TD *BA	*RA-H601SD	*RA-H601TD-1190	*RA-H601SD-1190	73.66	95.66	25	
	Long type 2		RA-H602TD	RA-H602SD	RA-H602TD-1190	RA-H602SD-1190			

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. Headers with locking levers can be used only for receptacle with strain reliefs.

2.*Marked products are not CSA approved.

Top entry type Side entry type <Note 3> 2.54±0.05 2.54±0.05 $\phi 1.0^{+0.1}_{-0.05}$ <Note 3> $\phi 1.0^{+0.1}_{-0.05}$ 1.52 đ 0.74 (14.0) 2.54±0.05 2.54±0.05 5.85±0.1 A-1 AH 8.90±0.1 (Edge of PC Board) Bs

PC board layout (viewed from	component side)
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Cir-	Dimensions (mm)				
cuits	Ан	Bs			
10	10.16	21.86			
14	15.24	26.94			
16	17.78	29.48			
20	22.86	34.56			
26	30.48	42.18			
34	40.64	52.34			
40	48.26	59.96			
50	60.96	72.66			
60	73.66	85.36			

Note:

- 1. Tolerances are non-cumulative: ±0.05mm for all centers. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
- The mounting screw holes are not required for standard headers.
 This is normally No. 1 pin position.