

# **RCY CONNECTOR** Disconnectable Crimp style Wire-to-wire connectors



The RCY connector is a compact, 2.5mm pitch wire-to-wire connector for use with a variety of circuits, from signal circuits to power supply circuits, in electrical equipment which is becoming more and more compact. The employment of a free spring contact method ensures stable contact performance, and superb working efficiency of insertion and removal.



### Features -

• Use of a free spring contact for superb creep characteristics

The contact section features a free spring contact construction, which effectively minimizes stress (creep) caused by repeated insertion and removal at high temperatures. Connector insertion and removal is also smooth, ensuring stable connection performance.

### Compact design

The RCY connector is designed to be compact. When mated, its overall length is just 23.3mm and its thickness is 4.0mm.

### Housing lock

Because a lock is provided inside the housing, external force is not applied to the lock.

# Specifications -

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
  - (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m  $\Omega$  max. After environmental testing/20m  $\Omega$  max.
- Insulation resistance: 500M  $\Omega$  min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #22
  - 0.08 to 0.33mm<sup>2</sup>
- \* RoHS compliant products are published.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.
- Note: The current rating varies depending on the wire size used in each connector.

The table below lists the current rating as a function of the wire size.

Circuits	Wire size (AWG)			
	#22	#24	#26	#28
2	3	2	1	0.5

# Standards

Recognized E60389

Certified LR20812



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### Contact-



Model No.		Applicable wire			Q´ty / reel	
Pin contact	Socket contact	mm²	AWG #	Insulation O.D. (mm)	Pin contact	Socket contact
SYM-001T-P0.6	SYF-001T-P0.6	0.08 to 0.33	28 to 22	1.2 to 1.8	8,500	7,500

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

**RoHS compliance** SYF-001T-P0.6 displays (LF)(SN) on a label. Note: Contact JST for brass products.

### Housing -

Receptacle housing (for pin contact)			Plug housing (for socket contact)		
	9.5 19.0				
Circuits		No.	Material	Q´ty / bag	
Circuits	Receptacle housing	Plug housing	Material	Q ty / bag	
2	SYR-02T	SYP-02T-1	PA 66, UL94V-2, red	1,000	
				1,000	

**RoHS compliance** 

### Assembly layout -



# Crimping machine, Applicator-

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SYM-001T-P0.6	AP-K2N	MKS-L, MSK-LS	MK/SYM-001-06	APLMK SYM001-06
		*MKS-SC	SC/SYM-001-06	APLSC SYM001-06

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SYF-001T-P0.6	AP-K2N	MKS-L	MK/SYF-001-06	APLMK SYF001-06
		-	-	-

Note: \*Strip-crimp applicator