

PC BOARD MOUNTING CONNECTORS

720 SERIES (CRIMP TYPE CONNECTORS)

■ FEATURES

The 720 series connectors (crimp connector) are designed for a wide range of uses, and come in many shapes, two contact arrangements (one and two rows), and various pin types. The 720 series headers can be mated with 700 and 740 series sockets, and are lockable when a special cover is used. Female contacts are secured in the housing by a unique internal spring structure. High-pressure contacts are also available which prevent accidental disconnection in applications that use only a few contacts.

For W and S type headers, insulation molds can be cut to the necessary size.

■ SPECIFICATIONS

Iten	n	Specification	
Operating temperature range		-55°C to +85°C	
Current rating	orataro rango	DC 3 A	
Voltage rating		AC 250 V	
Contact resistan	ce	20 mΩ max. (DC 6 V, 0.1 A)	
Insulation resista	ance	1000 MΩ max. (DC 500 V)	
Dielectric streng	th	AC 500 V for 1 minute	
Insertion force	Standard contacts	1.05 kg max. (3 pins), 25.2 kg max. (72 pins)	
	High-pressure contacts	2.1 kg max. (3 pins), 50.4 kg max. (72 pins)	
AAPste decreed forms	Standard contacts	0.09 kg min. (3 pins), 2.16 kg min. (72 pins)	
Withdrawal force	High-pressure contacts	0.18 kg min. (3 pins), 4.32 kg min. (72 pins)	
Applicable wire		Wire-wrap: AWG #26 to #30 (solid) Crimping: AWG #20 to #32	
Applicable PC board (standard)		1.6 mm (0.062 in.)	

Note: For thin wire crimping, the crimp height must be adjusted for increased reliability. Please contact us for further information.



■ MATERIALS

Item		Materials	
	Header	Polyester (UL94V-0)	
Insulating material	Socket	PPO (UL94V-1)	
	Cover	Nylon 6 (UL94V-2)	
Conductor		Copper alloy	
D:	Contact	Gold	
Plating	Terminal	Palladium	

Note: Tin-plated connectors are also available for 8- to 34-pin types.

■ MATERIALS (SMT CONNECTOR)

Item	Materials		
Insulating material	66 Nylon (UL94V	Nylon (UL94V-0)	
Conductor	Copper alloy		
Plating	Contact	Gold	
Plating	Terminal	Palladium	

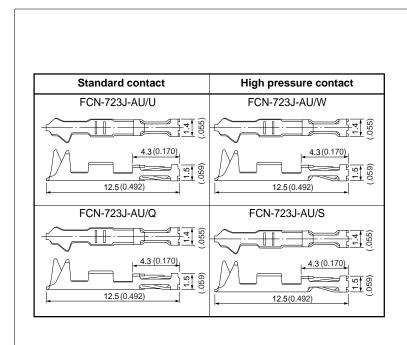
720 Series (Crimp Type Connectors)

CRIMP CONTACT

■ DIMENSIONS

1. Parts in bulk

Tool: Hand crimping tool



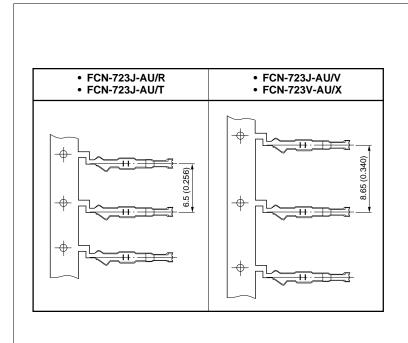


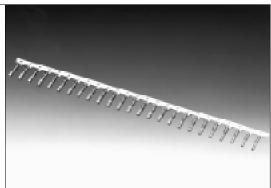
Wire gauge	Applied contact				
(AWG#)	Standard type	High pressure			
#20	FCN-723J-AU/U	FCN-723J-AU/W			
#22	FCN-723J-AU/U				
#24					
#26					
#28	FCN-723J-AU/Q	FCN-723J-AU/S			
#30					
#32					

Unit: mm (in.)

2. Parts in strips

Tool: Semiautomatic crimping tool





Wire gauge	Applied contact			
(AWG#)	Standard type	High pressure		
#20	FCN-723J-AU/V	FCN-723J-AU/X		
#22	1 CN-7233-A07V			
#24				
#26				
#28	FCN-723J-AU/R	FCN-723J-AU/T		
#30				
#32				

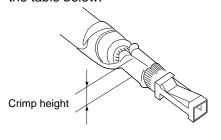
Unit: mm (in.)

720 Series (Crimp Type Connectors)

CRIMPING TOOLS

■ NOTES ON USING CRIMPING TOOLS

- Always use the crimping tools specified by Fujitsu.
- When using the tools, be sure to adjust the crimp height according to the table below.







Hand crimping tool

Semiautomatic crimping tool

■ HAND CRIMPING TOOL

Wire gauge	Wire cross- sectional area	Crimp height	Insulator diameter	Contact type		Stripped length	
(AWG#)	(mm (in.))	(mm (in.))	(mm (in.))	riana crimping tool	Standard type	High pressure	(mm (in.))
#20	0.52 to 0.64 (0.0205 to .0251)	0.75 to 0.85 (0.029 to 0.033)	φ1.3 to φ1.8	FCN-723T-T018/H	FCN-723J-AU/U	FCN-723J-AU/W	
#22	0.30 to 0.40 (0.0118 to 0.0157)	0.70 to 0.80 (.027 to .031)	(0.051 to 0.071)	FCN-7231-1016/FI	1 CN-7233-A0/0	1 CN-7255-A0/VV	
#24	0.20 to 0.24 (0.0079 to 0.0094)	0.70 to 0.80 (.027 to .031)					
#26	0.13 to 0.16 (0.0051 to 0.0063)	0.66 to 0.76 (.026 to .030)	φ1.1 to φ1.6 (0.043 to 0.063)	FCN-723T-T007/H			3.1 to 3.6 (0.122 to
#28	0.088 to 0.096 (0.0035 to 0.0038)	0.60 to 0.68 (.024 to .027)	(0.043 to 0.003)		FCN-723J-AU/Q	FCN-723J-AU/S	0.141)
#30	0.055 to 0.060 (0.0022 to 0.0029)	0.68 to 0.75 (.027 to .029)	φ0.7 to φ1.0 (0.028 to 0.039)	FCN-723T-T008/H			
#32	0.032 to 0.038 (0.0013 to 0.0015)	0.66 to 0.71 (.026 to .028)	(φ0.5 to φ0.6) (0.020 to 0.024)	(FCN-723T-T015/H)			

Note: Also, hand tool is available that can crimp two wires (AWG #30 φ0.5 mm) on one contact. Part Number: FCN-723T-T014/H, Applicable contact: FCN-723J-Au/Q or S

■ SEMIAUTOMATIC CRIMPING TOOL

Wire	Wire cross-	Crimp height	Insulator Semiautomatic crimping tool Contact type		ct type	Stripped			
gauge (AWG#)	sectional area (mm (in.))	(mm (in.))	diameter (mm (in.))	Press	Applicator	Standard type	High pressure	length (mm (in.))	
#20	0.52 to 0.64 (0.0205 to .0251)	0.75 to 0.85 (0.029 to 0.033)	φ1.3 to φ1.7		FCN-A118	FCN-723J-AU/V	FCN-723J-AU/X		
#22	0.30 to 0.40 (0.0118 to 0.0157)	0.70 to 0.80 (.027 to .031)	(0.051 to 0.070)		I CN-ATTO	1 CN-7233-A0/V	1 CN-7255-AO/A		
#24	0.20 to 0.24 (0.0079 to 0.0094)	0.70 to 0.80 (.027 to .031)	10.015.14.0						
#26	0.13 to 0.16 (0.0051 to 0.0063)	0.66 to 0.76 (.026 to .030)	φ0.8 to φ1.6 (0.031 to 0.063)	FCN-M100	FCN-A107			3.1 to 3.6 (0.122 to	
#28	0.088 to 0.096 (0.0035 to 0.0038)	0.60 to 0.68 (.024 to .027)					FCN-723J-AU/R	FCN-723J-AU/T	0.141)
#30	0.055 to 0.060 (0.0022 to 0.0029)	0.68 to 0.75 (.027 to .029)	φ0.5 to φ1.3		FCN-A108				
#32	0.032 to 0.038 (0.0013 to 0.0015)	0.66 to 0.71 (.026 to .028)	(0.020 to 0.051)		FCIN-ATU6				

Note: FCN-M100 conventional 3-ton press is also available. Contact us.

■ UNITS OF ORDERING PARTS IN STRIPS

Part number	Units of order
FCN-723J-AU/V	5,000
FCN-723J-AU/R	8,000
FCN-723J-AU/X	5,000
FCN-723J-AU/T	8,000

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