

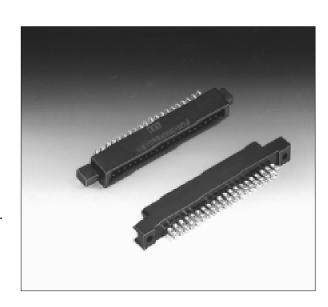
RECTANGULAR CONNECTORS

FCN-360 SERIES

Not for New Design

■ FEATURES

- Many applications
 Various connectors are available for connection by means of soldering, wire wrapping, crimping, PC board mounting, and insulation displacement connection
 - (IDC). The user can choose a plug and jack combination that best meet each application.
- Small size for high-density mounting
 The connectors are small with a contact and terminal pitch of 2.54 mm (0.100 in.) between pins and between rows and are thus well suited for high-density mounting.
- Sturdy shell guide
 Sturdy shell guides are used to prevent mismating and to protect the pins.
- Excellent cost performance
 Streamlined design and automated manufacturing, including use of partial solder plating, provide excellent cost performance.



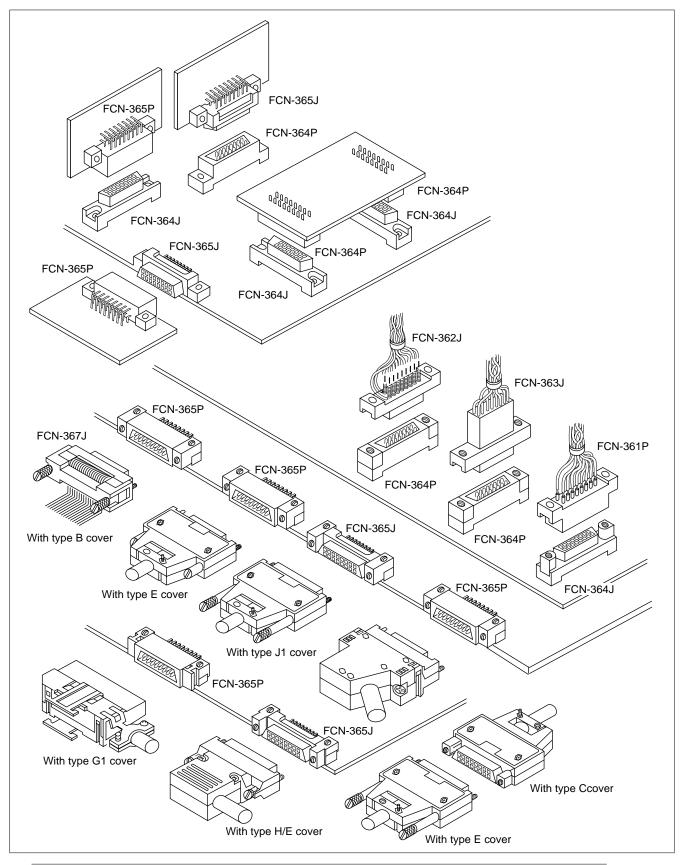
■ SPECIFICATIONS

	Item	Specification		
Operating temperature range		–55°C to +85°C		
Current Rat	ing	DC 3 A (IDC type: 1 A)		
Voltage Rat	ting	AC 250 V		
Contact res	istance	15 mΩ max. (DC 6 V, 0.3 A)		
Insulation re	esistance	1000 MΩ min. (DC 500 V)		
Dielectric wit	hstanding voltage	AC 500 V for 1 minute		
Insertion for	rce	2.5 kg max. (8 contacts), 20 kg max. (64 contacts)		
Withdrawal	force	0.3 kg min. (8 contacts), 2.3 kg min. (64 contacts)		
	Soldering	φ0.60 mm (0.024 in.) max, AWG #23 or less		
	Wire-wrapping	φ0.32 mm (0.013 in.) to φ0.26 mm (0.010 in.), AWG #28 to #30		
Applicable wire	Crimping	Standard contacts ϕ 0.51 mm (0.020 in.) to ϕ 0.32 mm (0.013 in.), AWG #24 to #28, insulator ϕ 1.2 mm (0.047 in.) max. Contacts for thick wires ϕ 0.64 mm (0.025 in.) to ϕ 0.32 mm (0.013 in.), AWG #22 to #28, insulator ϕ 1.7 (0.067 in.) max.		
	IDC	Flat cable 1.27 mm (0.050 in.) pitch, AWG #28 (stranded wire), AWG #30 (solid wire)		
Applicable I	PC board	1.6 mm (0.063 in.) standard thick		

■ MATERIALS

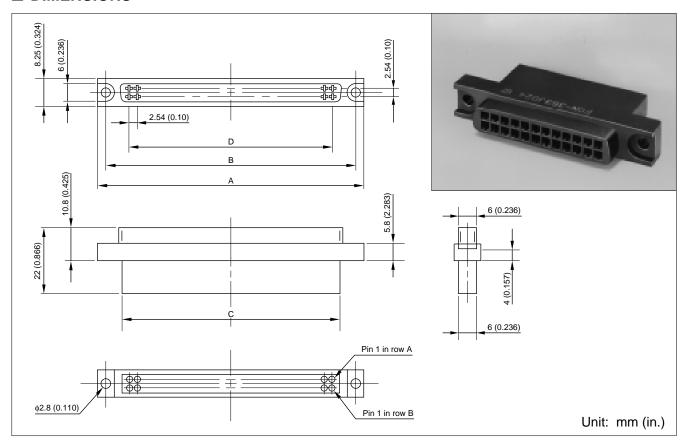
Item	Material
Insulator	Polyester (363J: PC94V-2)
Conductor	Copper alloy
Plating	Gold plating, silver plating

■ APPLICATION EXAMPLE

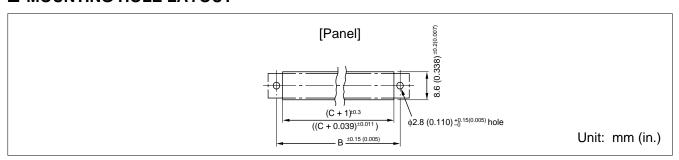


CRIMP TYPE (JACK HOUSING)

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT



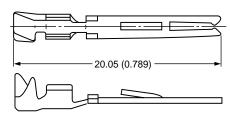
■ PART NUMBERS AND DIMENSIONS

Number of	Part number		Dimensions: mm (in.)					
contacts		Α	В	С	D			
8	FCN-363J008	28.84 (1.135)	23.34 (0.918)	12.82 (0.505)	7.62 (0.3)			
16	FCN-363J016	39.0 (1.535)	33.5 (1.318)	22.98 (0.905)	17.78 (0.7)			
24	FCN-363J024	49.16 (1.935)	43.66 (1.718)	33.14 (1.305)	27.94 (1.1)			
32	FCN-363J032	59.32 (2.335)	53.82 (2.118)	43.3 (1.705)	38.1 (1.5)			
40	FCN-363J040	69.48 (2.735)	63.98 (2.518)	53.46 (2.105)	48.26 (1.9)			
48	FCN-363J048	79.64 (3.135)	74.14 (2.918)	63.62 (2.505)	58.42 (2.3)			
56	FCN-363J056	89.8 (3.535)	84.3 (3.318)	73.78 (2.905)	68.58 (2.7)			
64	FCN-363J064	99.96 (3.935)	94.46 (3.718)	83.94 (3.305)	78.74 (3.1)			

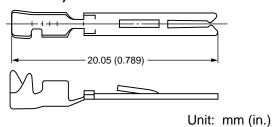
CRIMP TYPE (CONTACT)

■ DIMENSIONS

Standard contact (applicable wire: AWG #24 to #28)



Thick wire connection contact (applicable wire: AWG #22 to #26)



■ PART NUMBERS

Туре	Plating	Standard	Thick wire connection contact
Loose piece	Gold plating	FCN-363J-AU	FCN-363J-AU/S
Strip reeled	Gold plating	FCN-363J-AU/R	FCN-363J-AU/T

■ PART NUMBERS OF CRIMPING TOOLS

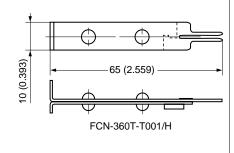
Part number	Contact type	Applicable wire	Wire cross-section area (mm²)	Crimp height	Insulator diameter	Stripped length
FCN-363T-T005/H (Hand crimping tool)	FCN-363J-AU (Loose piece)	AWG #24	0.20 to 0.24	1.25 mm (0.049 in.) to 1.30 mm (0.051 in.)	φ1.2 mm (0.047 in.) max	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)
FCN-M110 (Automatic crimping machine)	FCN-363J-AU/R (Strip reeled)	AWG #26	0.13 to 0.16	1.20 mm (0.047 in.) to 1.25 mm (0.049 in.)	φ1.2 mm (0.047 in.) max	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)
FCN-A105 (Applicator)		AWG #28	0.088 to 0.096	1.15 mm (0.045 in.) to 1.20 mm (0.047 in.)	φ1.2 mm (0.047 in.) max	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)
FCN-363T-T011/H (Hand crimping tool)	FCN-363J-AU/S (Loose piece)	AWG #22	0.30 to 0.40	0.85 mm (0.033 in.) to 0.95 mm (0.037 in.)	φ0.9 mm (0.035 in.) 1.8 mm (0.071 in.)	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)
FCN-M110 (Automatic crimping machine)	FCN-363J-AU/T (Strip reeled)	AWG #24	0.20 to 0.24	0.75 mm (0.029 in.) to 0.85 mm (0.033 in.)	φ0.9 mm (0.035 in.) 1.8 mm (0.071 in.)	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)
FCN-A111 (Applicator)		AWG #26	0.13 to 0.16	0.73 mm (0.028 in.) to 0.81 mm (0.031 in.)	φ0.9 mm (0.035 in.) 1.8 mm (0.071 in.)	3.0 mm (0.118 in.) to 4.0 mm (0.157 in.)

[Hand crimping tool]

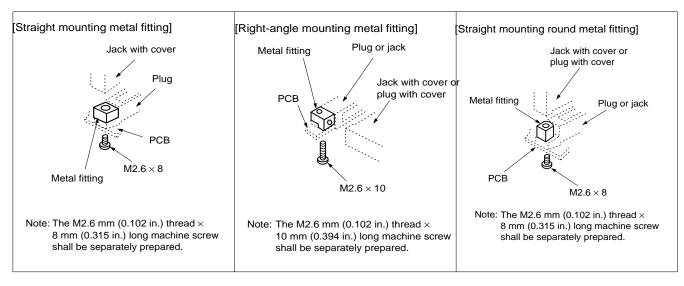


[Semi-automatic crimping machine, [Contact withdrawal tool] applicator]





ACCESSORIES ■ MOUNTING SYLE



■ SELECTION OF METAL FITTINGS ACCORDING TO COMBINATION OF CONNECTORS AND COVERS

		Jack		Cover mounting side								
			36	1J	36	2J	36	3J	36	4J	36	7J
Plug			With cover	Without cover	With cover	Without cover	With cover	Without cover	With cover	Without cover	With cover	Without cover
Metal	361P		FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	_	FCN-360A5
fitting	362P	Metal fitting part	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	-	FCN-360A6
mounting side	364P	number	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	_	FCN-360A6
	365P		FCN-360A2	FCN-360A3	FCN-360A2	FCN-360A3	FCN-360A2	FCN-360A3	FCN-360A2	FCN-360A3	1	FCN-360A3

		Plug	Cover mounting side						
			361P		361P		364P		
Jack	·		With cover	Without cover	With cover	Without cover	With cover	Without cover	
	361J		FCN-360A4	FCN-360A5	_	FCN-360A7	_	FCN-360A7	
	362J]	FCN-360A4	FCN-360A5	-	FCN-360A7	_	FCN-360A7	
Metal fitting	363J	Metal	FCN-360A4	FCN-360A5	_	FCN-360A7	_	FCN-360A7	
mounting	364J	fitting part number	FCN-360A4	FCN-360A5	_	FCN-360A7	_	FCN-360A7	
side	365J		FCN-360A10 (FCN-360A8)	FCN-360A9	_	FCN-360A9	_	FCN-360A9	
	367J	1	FCN-360A4	FCN-360A5	_	FCN-360A7	_	FCN-360A7	

Note: When the jack or plug without a cover (shaded part) is used, have M2.6 \times 8 mm machine screws ready inorder to tighten the connector.

■ SHAPES AND DIMENSIONS OF METAL FITTINGS

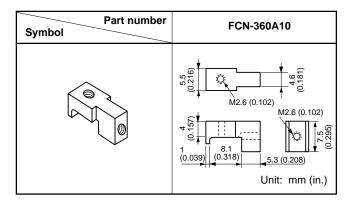
1.Straight Mounting Metal Fittings

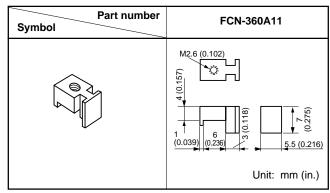
Shape	Part number Symbol	FCN-360A1	FCN-360A6
M2.6 (0.102) S (0.216) Unit: mm (in.)	A	5.3 (0.208)	6.3 (0.248)

2. Right-angle Mounting Metal Fittings

Shape	Part number Symbol	FCN-360A2	FCN-360A3
M2.6 (0.102)	В	3 (0.118)	4 (0.157)
5.5 (0.216) Unit: mm (in.)	С	9 (0.354)	10 (0.393)

Shape	Part number Symbol	FCN-360A8	FCN-360A9
M2.6 (0.102) (\$\frac{\(\text{G} \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	В	5.3 (0.208)	6.3 (0.248)
©: B 15.4 (0.212) Unit: mm (in.)	С	13.3 (0.523)	14.3 (0.526)





3. Straight Mounting Round Metal Fittings

Shape	Part number Symbol	FCN-360A4	FCN-360A5	FCN-360A7
M2.6 (0.102) (a) (0.102) (b) (0.02) (c) (0.206)	D	7.1(0.279)	9.9 (0.389)	8.1 (0.318)
Unit: mm (in.)				

FCN-360 Series

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