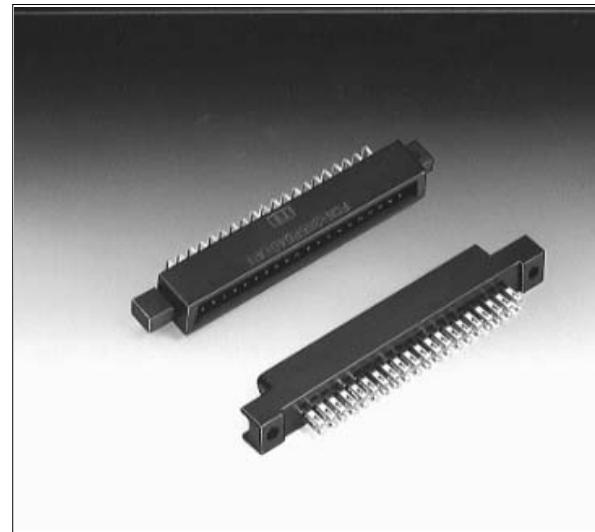


RECTANGULAR CONNECTORS

FCN-360 SERIES

■ 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 mismatching and to protect the pins.
- Excellent cost performance
Streamlined design and automated manufacturing, including use of partial solder plating, provide excellent cost performance.



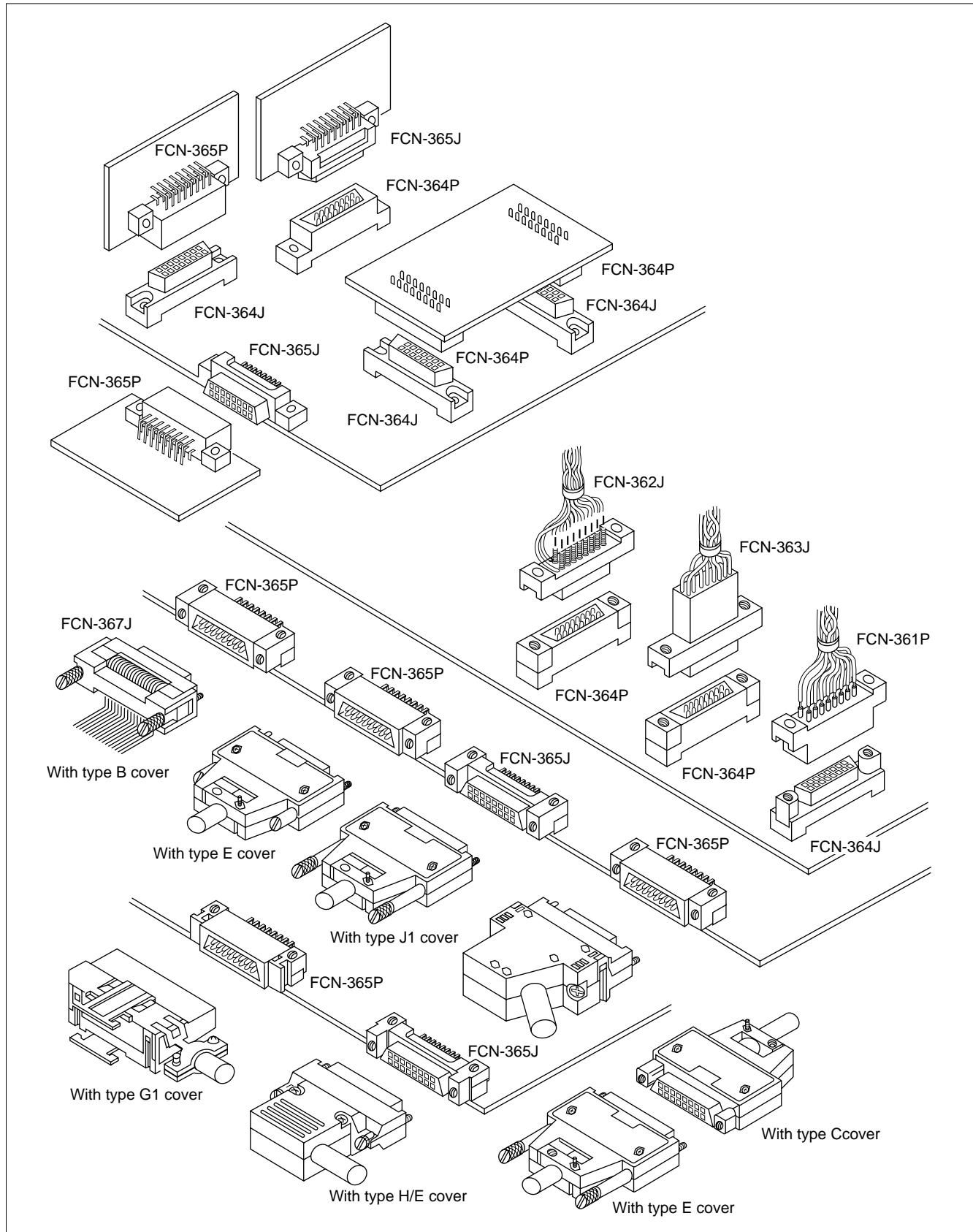
■ SPECIFICATIONS

Item	Specification
Operating temperature range	-55°C to +85°C
Current Rating	DC 3 A (IDC type: 1 A)
Voltage Rating	AC 250 V
Contact resistance	15 mΩ max. (DC 6 V, 0.3 A)
Insulation resistance	1000 MΩ min. (DC 500 V)
Dielectric withstanding voltage	AC 500 V for 1 minute
Insertion force	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)
Applicable wire	Soldering
	Wire-wrapping
	Crimping
	IDC
Applicable PC board	1.6 mm (0.063 in.) standard thick

■ MATERIALS

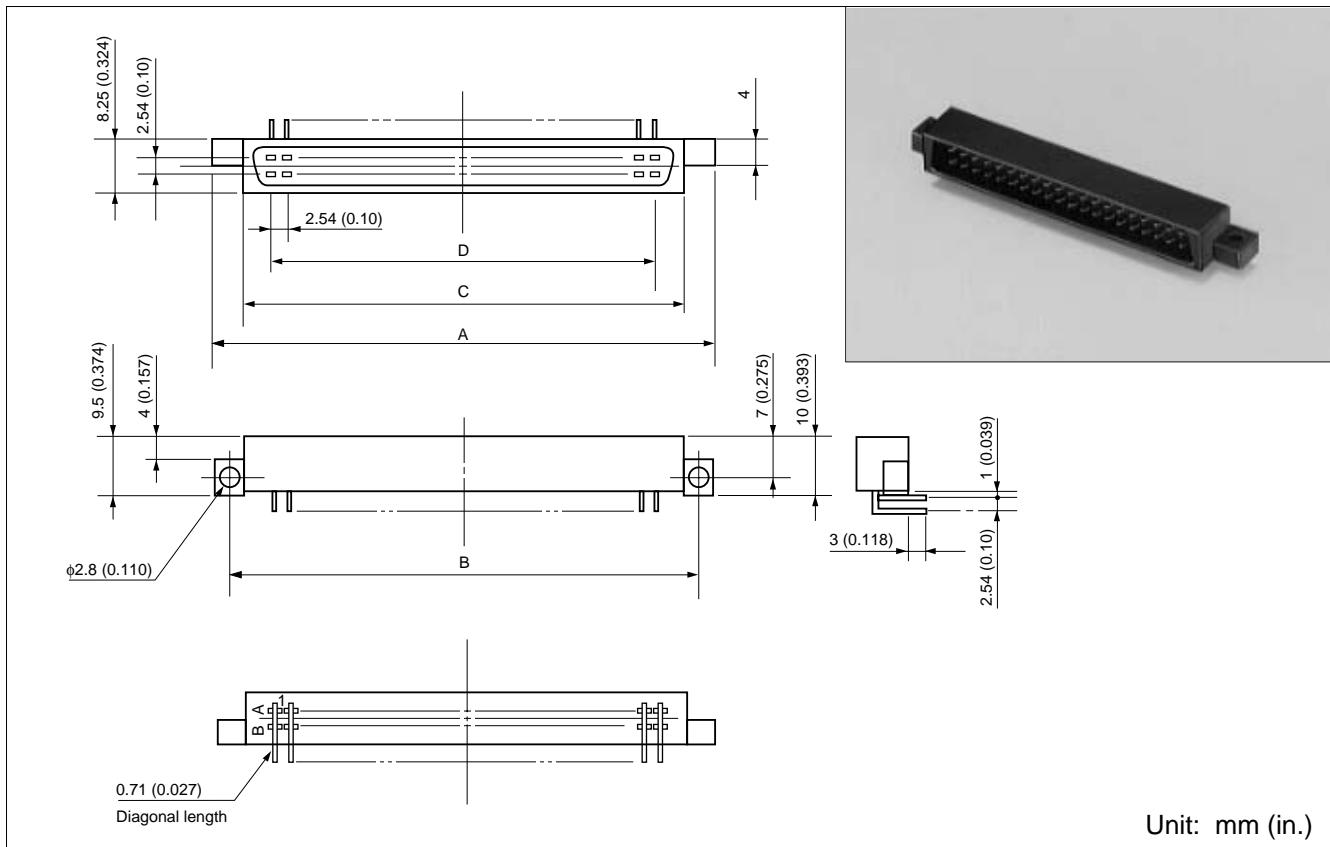
Item	Material
Insulator	Polyester (363J: PC94V-2)
Conductor	Copper alloy
Plating	Gold plating, silver plating

■ APPLICATION EXAMPLE

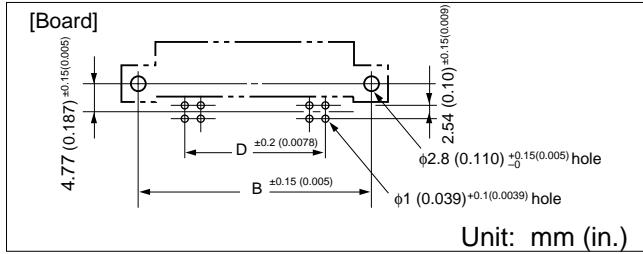


RIGHT-ANGLE TYPE (PLUG)

■ DIMENSIONS

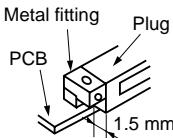


■ MOUTING HOLE LAYOUT



■ NOTE

- Note on mounting a right-angle plug on a board



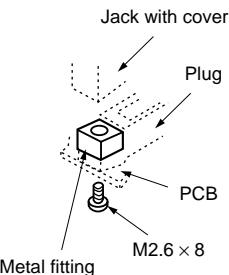
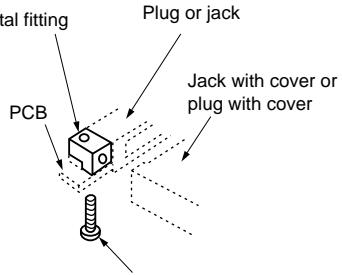
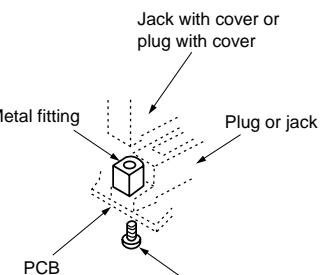
Mount the connector so that it projects from the board by at least 1.5 mm (0.059 in.).

■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)			
		A	B	C	D
8	FCN-365P008-AU	28.84 (1.135)	23.34 (0.918)	17.84 (0.702)	7.62 (0.3)
16	FCN-365P016-AU	39.0 (1.535)	33.5 (1.318)	28.0 (1.102)	17.78 (0.7)
24	FCN-365P024-AU	49.16 (1.935)	43.66 (1.718)	38.16 (1.502)	27.94 (1.1)
32	FCN-365P032-AU	59.32 (2.335)	53.82 (2.118)	48.32 (1.902)	38.1 (1.5)
40	FCN-365P040-AU	69.48 (2.735)	63.98 (2.518)	58.48 (2.302)	48.26 (1.9)
48	FCN-365P048-AU	79.64 (3.135)	74.14 (2.918)	68.64 (2.702)	58.42 (2.3)
56	FCN-365P056-AU	89.8 (3.535)	84.3 (3.318)	78.8 (3.102)	68.58 (2.7)
64	FCN-365P064-AU	99.96 (3.935)	94.46 (3.718)	88.96 (3.502)	78.74 (3.1)

ACCESSORIES

■ MOUNTING STYLE

[Straight mounting metal fitting]	[Right-angle mounting metal fitting]	[Straight mounting round metal fitting]
 <p>Jack with cover Plug PCB Metal fitting M2.6 × 8</p> <p>Note: The M2.6 mm (0.102 in.) thread × 8 mm (0.315 in.) long machine screw shall be separately prepared.</p>	 <p>Metal fitting Plug or jack PCB Jack with cover or plug with cover M2.6 × 10</p> <p>Note: The M2.6 mm (0.102 in.) thread × 10 mm (0.394 in.) long machine screw shall be separately prepared.</p>	 <p>Jack with cover or plug with cover Metal fitting Plug or jack PCB M2.6 × 8</p> <p>Note: The M2.6 mm (0.102 in.) thread × 8 mm (0.315 in.) long machine screw shall be separately prepared.</p>

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

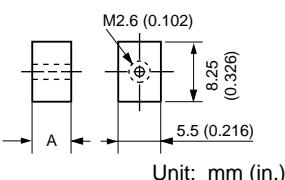
Jack		Cover mounting side										
		361J		362J		363J		364J		367J		
		With cover	Without cover	With cover	Without cover	With cover	Without cover	With cover	Without cover	With cover	Without cover	
Metal fitting mounting side	361P	Metal fitting part number	FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	FCN-360A4	FCN-360A5	—	FCN-360A5
	362P		FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	FCN-360A1	FCN-360A6	—	FCN-360A6
	364P		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	—	FCN-360A3

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

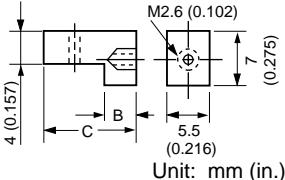
Note: When the jack or plug without a cover (shaded part) is used, have M2.6 × 8 mm machine screws ready in order to tighten the connector.

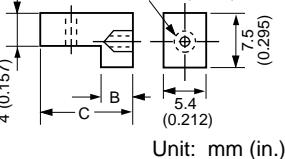
■ SHAPES AND DIMENSIONS OF METAL FITTINGS

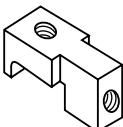
1. Straight Mounting Metal Fittings

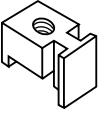
Shape	Symbol	Part number	FCN-360A1	FCN-360A6
	A		5.3 (0.208)	6.3 (0.248)

2. Right-angle Mounting Metal Fittings

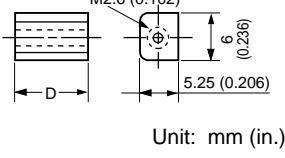
Shape	Symbol	Part number	FCN-360A2	FCN-360A3
	B		3 (0.118)	4 (0.157)
	C		9 (0.354)	10 (0.393)

Shape	Symbol	Part number	FCN-360A8	FCN-360A9
	B		5.3 (0.208)	6.3 (0.248)
	C		13.3 (0.523)	14.3 (0.526)

Symbol	Part number
	FCN-360A10

Symbol	Part number
	FCN-360A11

3. Straight Mounting Round Metal Fittings

Shape	Symbol	Part number	FCN-360A4	FCN-360A5	FCN-360A7
	D		7.1(0.279)	9.9 (0.389)	8.1 (0.318)