

PC BOARD CONNECTORS

740 SERIES

■ FEATURES

- Various types of headers are available: one side shrouded, both sides shrouded, with simplified latch, and box type.
- The connector having a simplified latch prevents the connector from working loose because of vibration.
- The mini header has a clip to prevent incorrect insertion.
- A 740 series connector with a power terminal (2 in 1) for SCSI/IDE interface unit connections is also available.

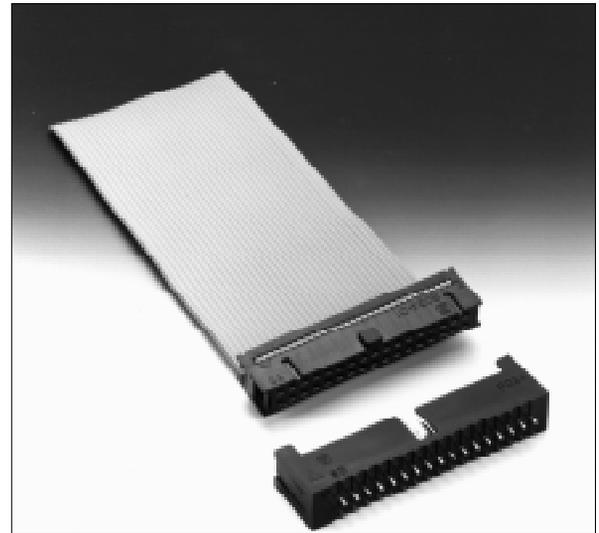
■ SPECIFICATIONS

1. Standard type

Item	Specification
Operating temperature range	-55°C to +105°C
Current rating	DC 1 A
Voltage rating	AC 250 V
Contact resistance	15 mΩ max. (DC 6 V, 0.1 A)
Insulation resistance	1000 MΩ min. (DC 500 V)
Dielectric strength	AC 500 V for 1 minute
Insertion force	3.5 kg max. (10 pins), 10.5 kg max. (30 pins)
Withdrawal force	0.25 kg min. (10 pins), 1.0 kg min. (30 pins)
Applicable wire	Flat cable: 1.27 mm (0.050 in.) pitch AWG #28 (stranded) or AWG #30 (solid)
Applicable PC board (standard)	1.6 mm

2. Power connector integrated type

Item	Specification
Operating temperature range	-55°C to +105°C
Current rating	DC 1 A (signal pin) DC 5 A (power pin)
Voltage rating	AC 250 V
Contact resistance	15 mΩ max. (signal pin, DC 6 V, 0.1 A) 10 mΩ max. (power pin, DC 6 V, 0.3 A)
Insulation resistance	1000 MΩ min. (DC 500 V)
Dielectric strength	AC 500 V for 1 minute (signal pin) AC 1000 V for 1 minute (power pin)
Insertion force	50-contact signal pin: 17.5 kg max. 40-contact signal pin: 14.0 kg max. Power pin (reference value): 8.8 kg max.
Withdrawal force	50-contact signal pin: 2.0 kg max. 40-contact signal pin: 1.5 kg max. Power pin (reference value): 0.8 kg max.
Applicable PC board (standard)	1.6 mm (0.062 in.) (through hole type)



■ MATERIALS

1. Standard type

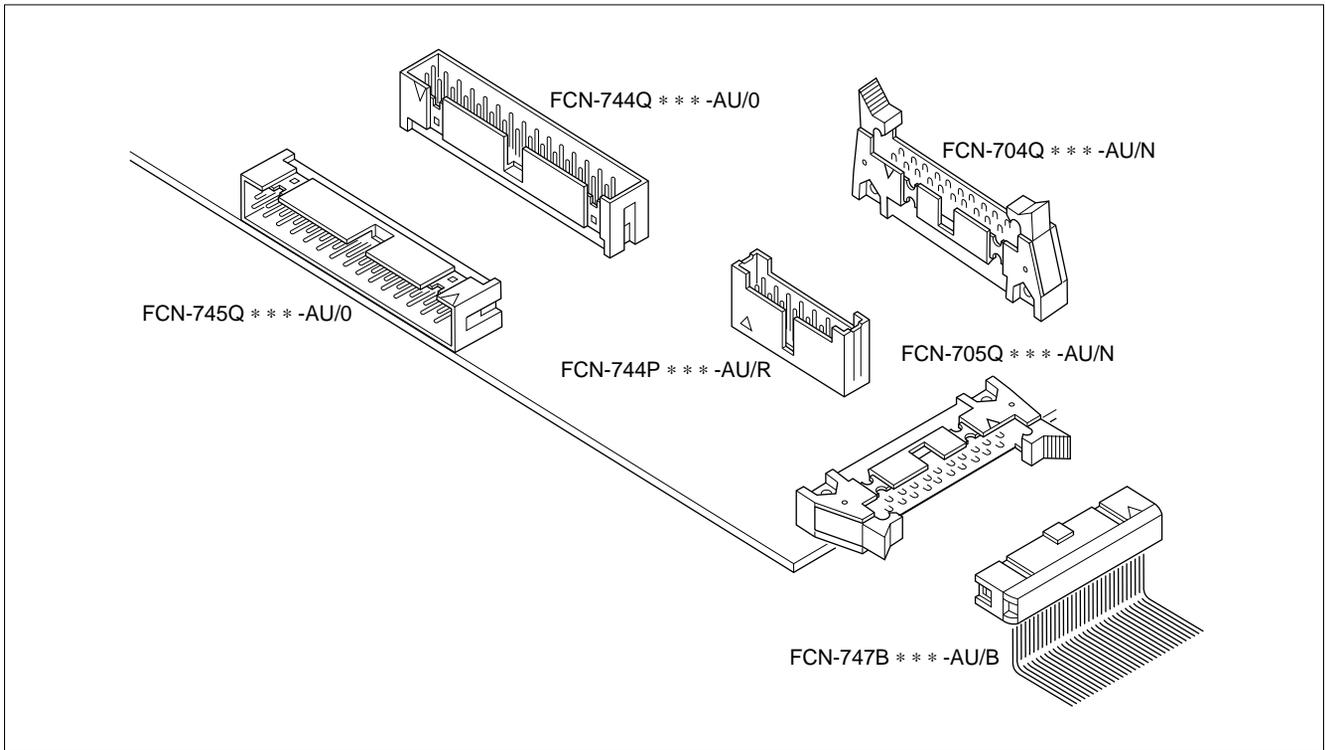
Item	Materials	
Insulating material	Polyester (UL94V-0)	
Conductor	Copper alloy	
Plating	Contact	Gold
	Terminal	Palladium

2. Power connector integrated type

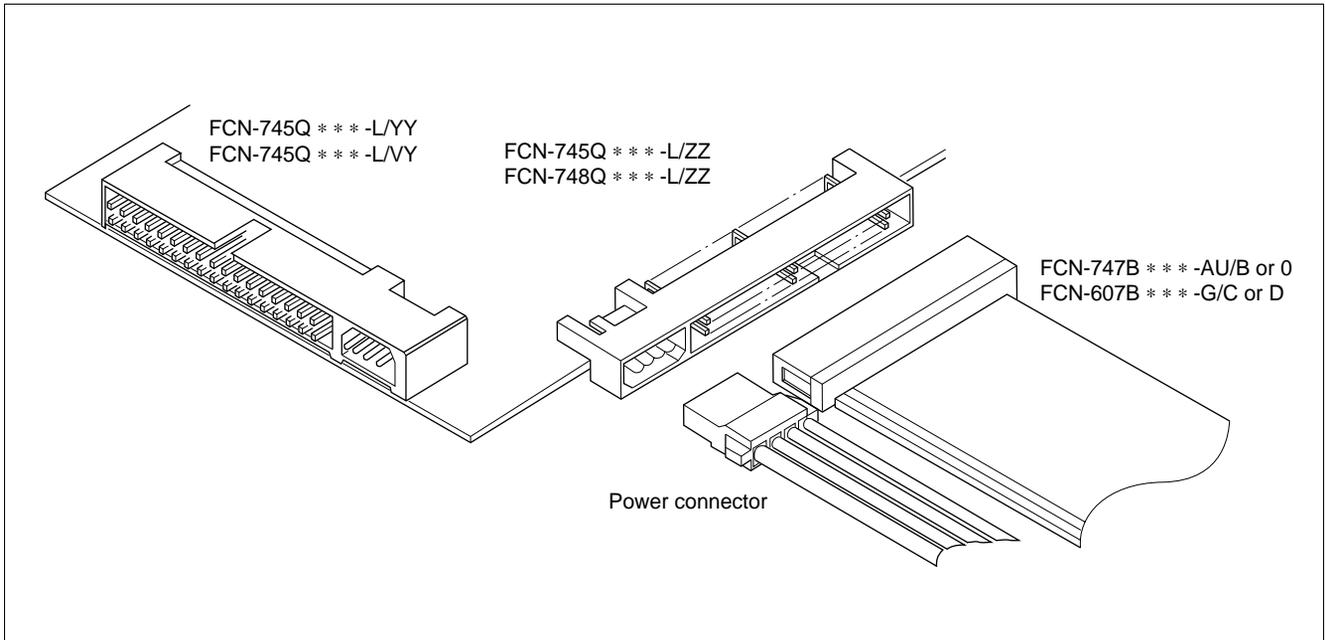
Item	Materials	
Insulating material	Through hole type: Polyester (UL94V-0) SMT type: PPS (UL94V-0)	
Conductor	Copper alloy	
Plating	Signal pin contact	Gold
	Signal pin tail	Palladium
	Power pin	Solder

■ APPLICATION EXAMPLE

1. Standard type



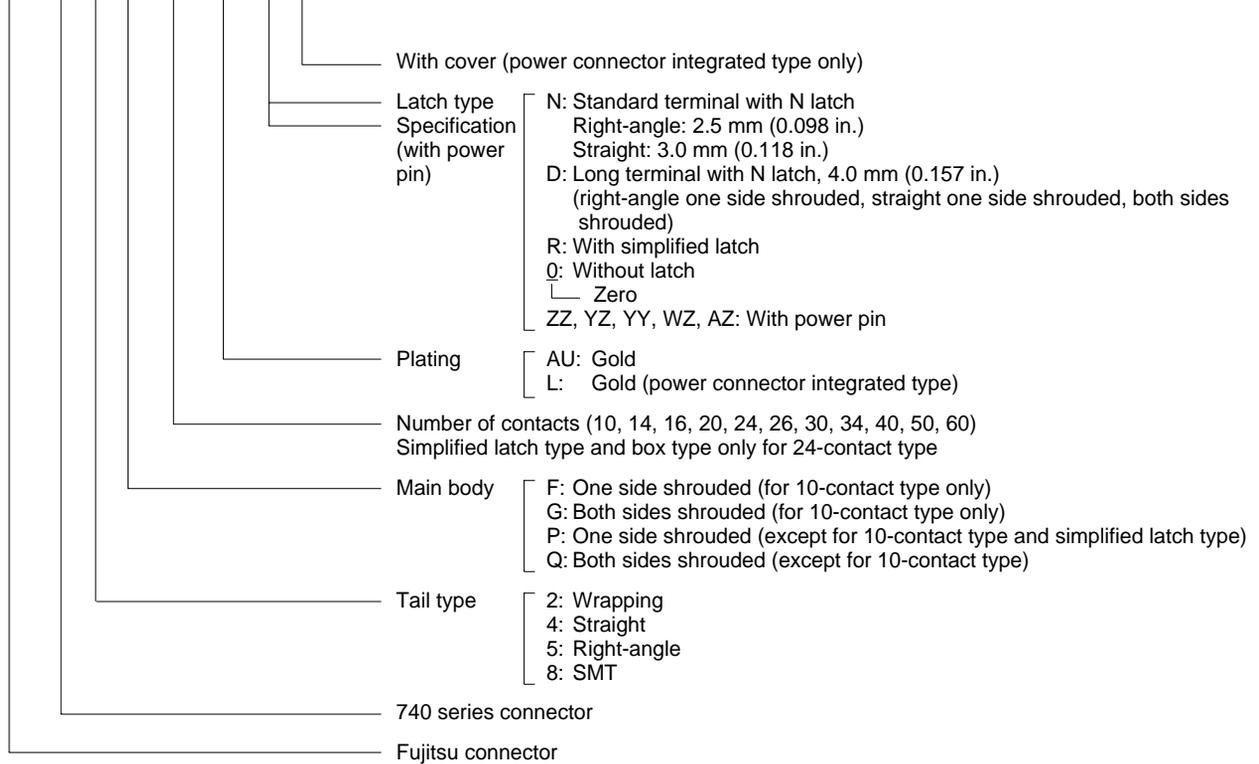
2. Power connector integrated type



■ ORDERING CODE

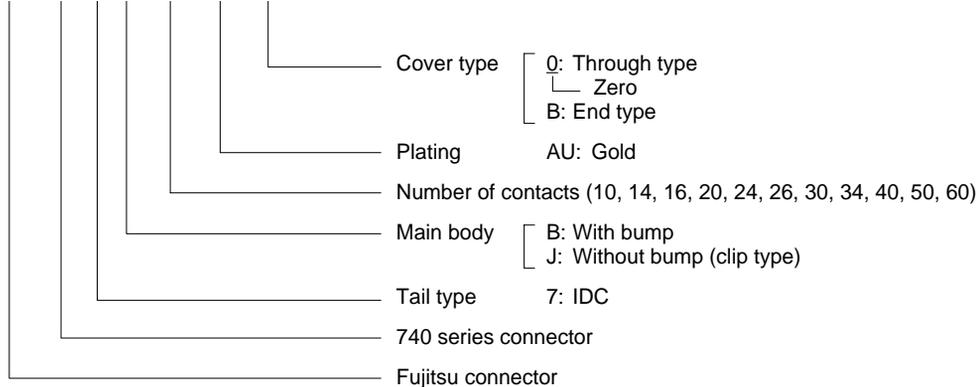
1. Header

FCN-74 5 Q 050-AU / 0-0C



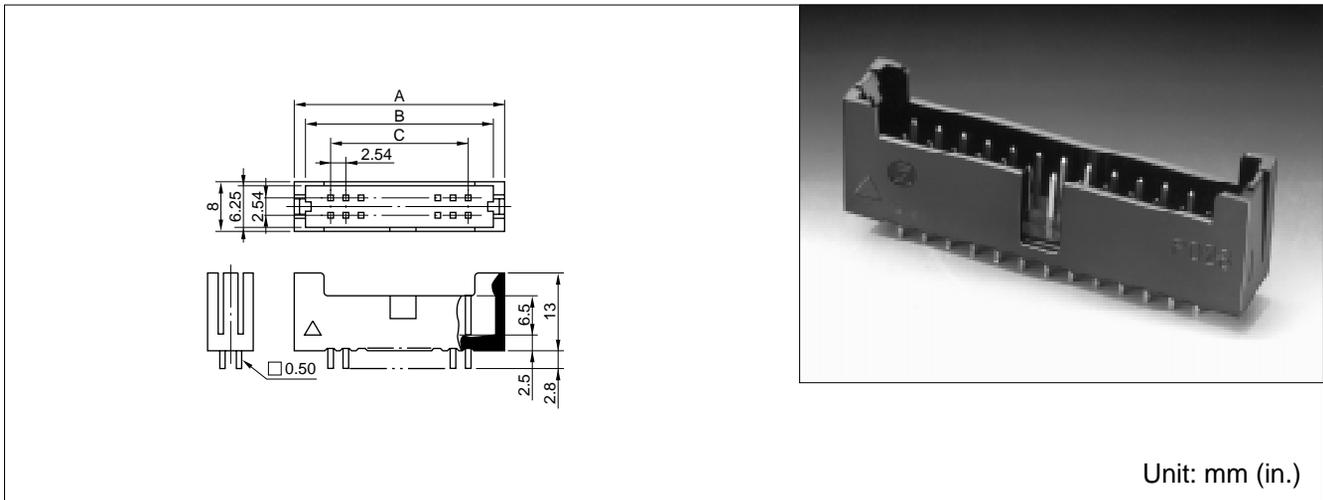
2. Socket

FCN-74 7 B 040-AU / B

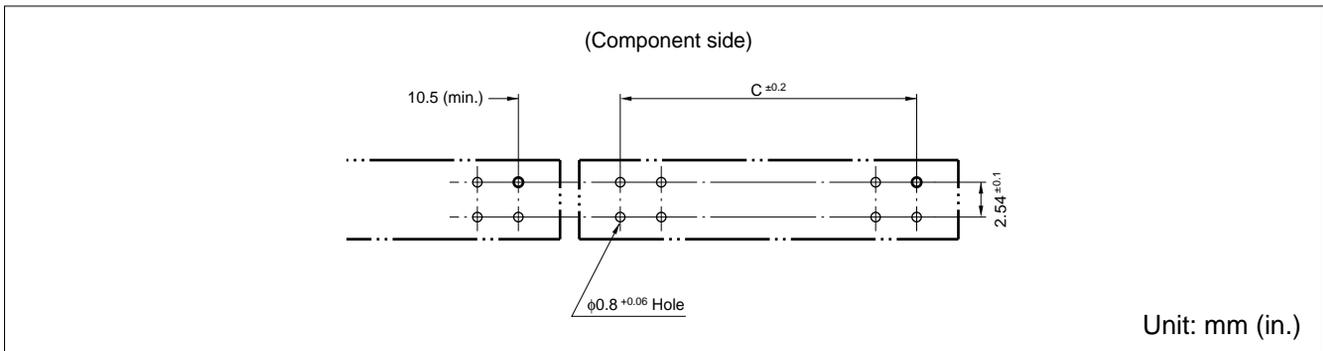


STRAIGHT PLUG (WITH SIMPLIFIED LATCH)

■ DIMENSIONS



■ MOUNTING HOLE LAYOUT

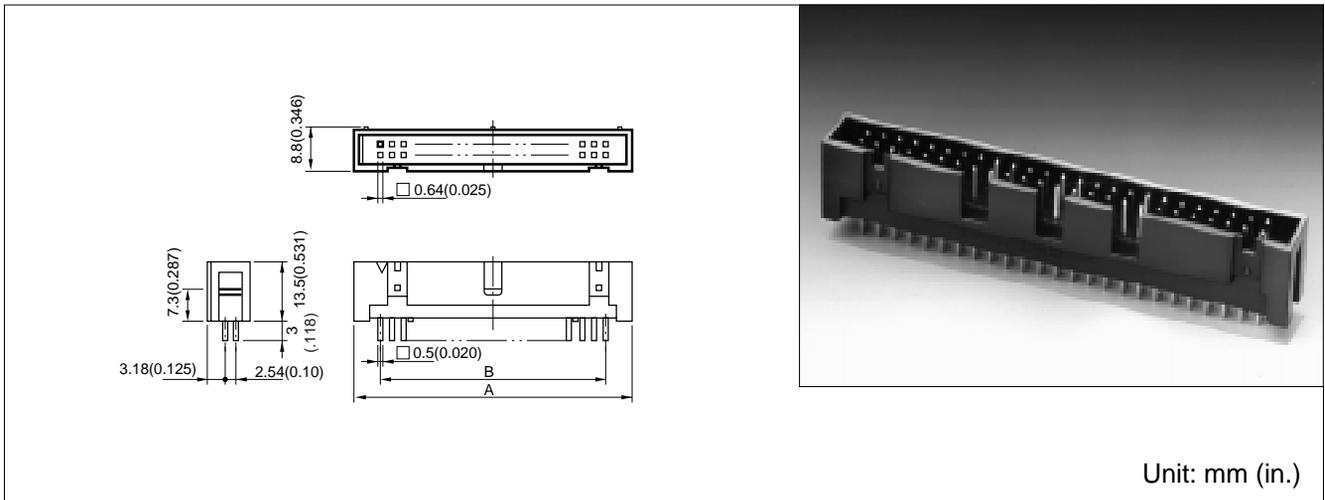


■ PART NUMBERS AND DIMENSIONS

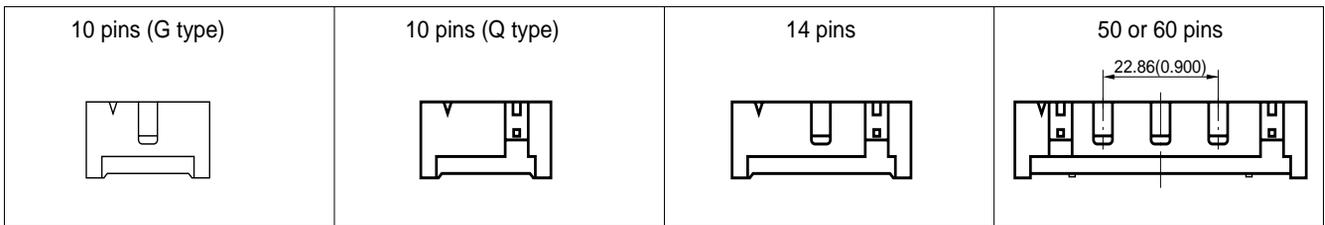
Number of contacts	Part number	Mini header		
		Dimensions: mm (in.)		
		A	B	C
10	FCN-744P010-AU/R	20.12	17.72	10.16
14	FCN-744P014-AU/R	25.20	22.80	15.24
16	FCN-744P016-AU/R	27.74	25.34	17.78
20	FCN-744P020-AU/R	32.82	30.42	22.86
24	FCN-744P024-AU/R	37.90	35.50	27.94
26	FCN-744P026-AU/R	40.44	38.04	30.48
30	FCN-744P030-AU/R	45.52	43.12	35.56
34	FCN-744P034-AU/R	50.60	48.20	40.64

STRAIGHT PLUG (BOX TYPE)

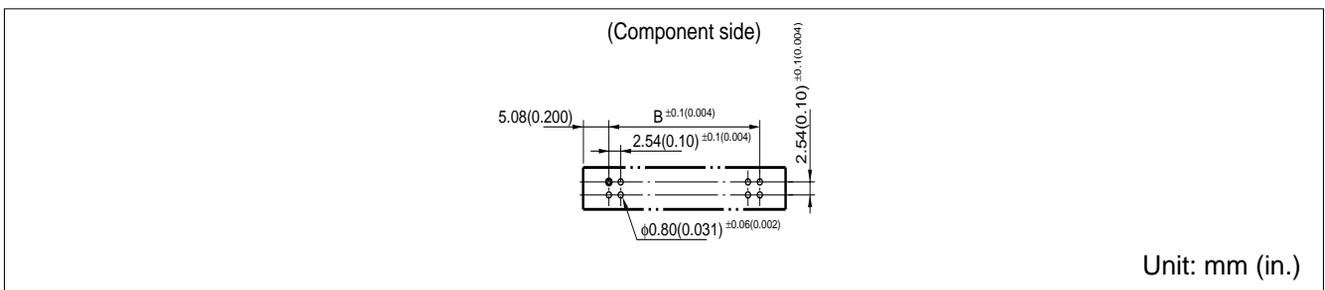
■ DIMENSIONS



■ CONFIGURATION BY THE NUMBER OF PINS



■ MOUNTING HOLE LAYOUT

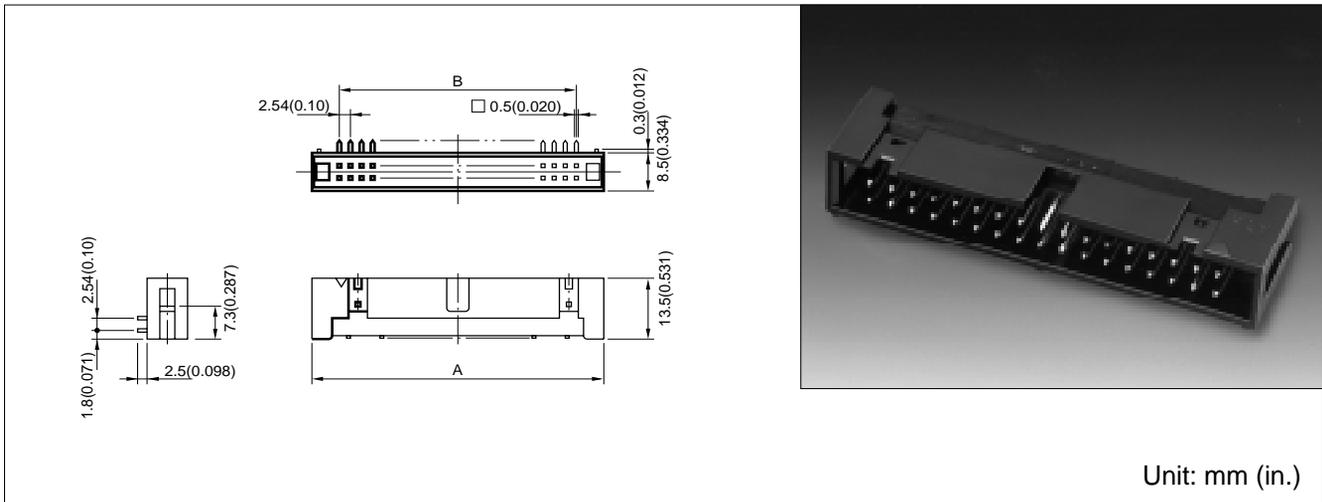


■ PART NUMBERS AND DIMENSIONS

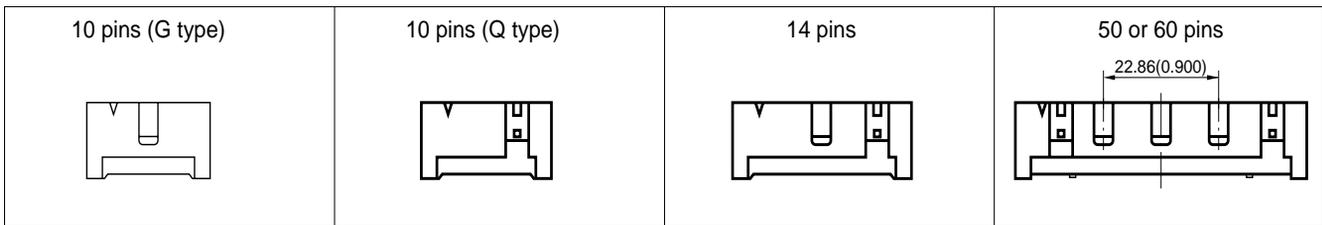
Number of contacts	Part number	Dimensions: mm (in.)	
		A	B
10	FCN-744G010-AU/0	20.3 (0.799)	10.16 (0.400)
10	FCN-744Q010-AU/0	20.3 (0.799)	10.16 (0.400)
14	FCN-744Q014-AU/0	25.4 (1.000)	15.24 (0.600)
16	FCN-744Q016-AU/0	27.9 (1.098)	17.78 (0.700)
20	FCN-744Q020-AU/0	33.0 (1.299)	22.86 (0.900)
24	FCN-744Q024-AU/0	38.08 (1.499)	27.94 (1.100)
26	FCN-744Q026-AU/0	40.6 (1.598)	30.48 (1.200)
30	FCN-744Q030-AU/0	45.7 (1.799)	35.56 (1.400)
34	FCN-744Q034-AU/0	50.8 (2.000)	40.64 (1.600)
40	FCN-744Q040-AU/0	58.4 (2.299)	48.26 (1.900)
50	FCN-744Q050-AU/0	71.1 (2.799)	60.96 (2.400)
60	FCN-744Q060-AU/0	83.8 (32.99)	73.66 (2.900)

RIGHT-ANGLE PLUG (BOX TYPE)

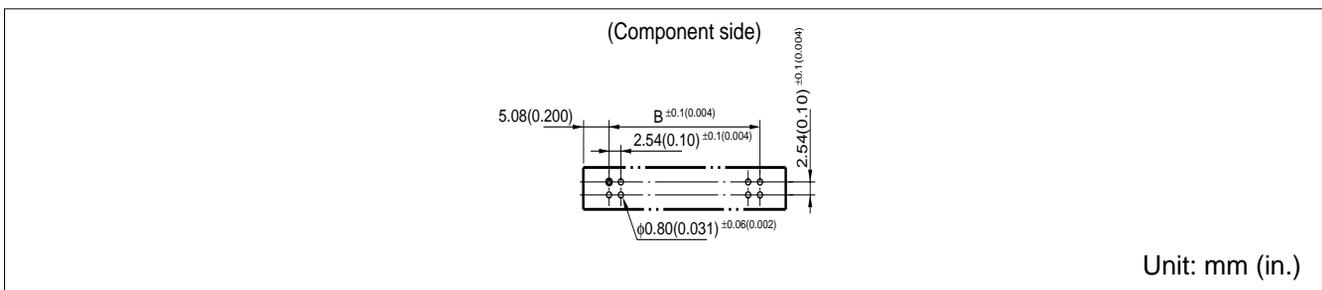
■ DIMENSIONS



■ CONFIGURATION BY THE NUMBER OF PINS



■ MOUNTING HOLE LAYOUT

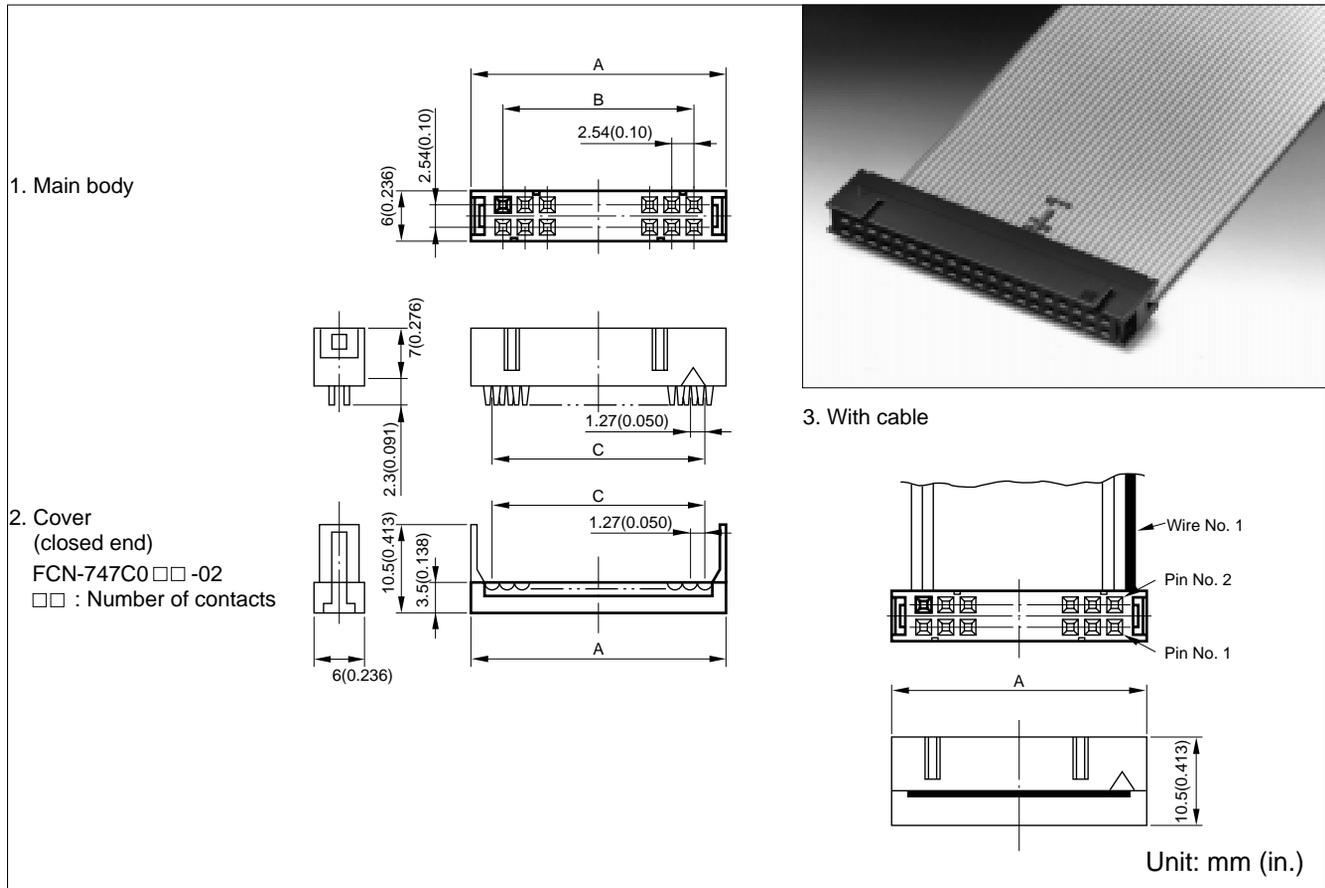


■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)	
		A	B
10	FCN-745G010-AU/0	20.3 (0.799)	10.16 (0.400)
10	FCN-745Q010-AU/0	20.3 (0.799)	10.16 (0.400)
14	FCN-745Q014-AU/0	25.4 (1.000)	15.24 (0.600)
16	FCN-745Q016-AU/0	27.9 (1.098)	17.78 (0.700)
20	FCN-745Q020-AU/0	33.0 (1.299)	22.86 (0.900)
24	FCN-745Q024-AU/0	38.08 (1.499)	27.94 (1.100)
26	FCN-745Q026-AU/0	40.6 (1.598)	30.48 (1.200)
30	FCN-745Q030-AU/0	45.7 (1.799)	35.56 (1.400)
34	FCN-745Q034-AU/0	50.8 (2.000)	40.64 (1.600)
40	FCN-745Q040-AU/0	58.4 (2.299)	48.26 (1.900)
50	FCN-745Q050-AU/0	71.1 (2.799)	60.96 (2.400)
60	FCN-745Q060-AU/0	83.8 (32.99)	73.66 (2.900)

IDC SOCKET (CLIP TYPE, CLOSED END COVER)

■ DIMENSIONS

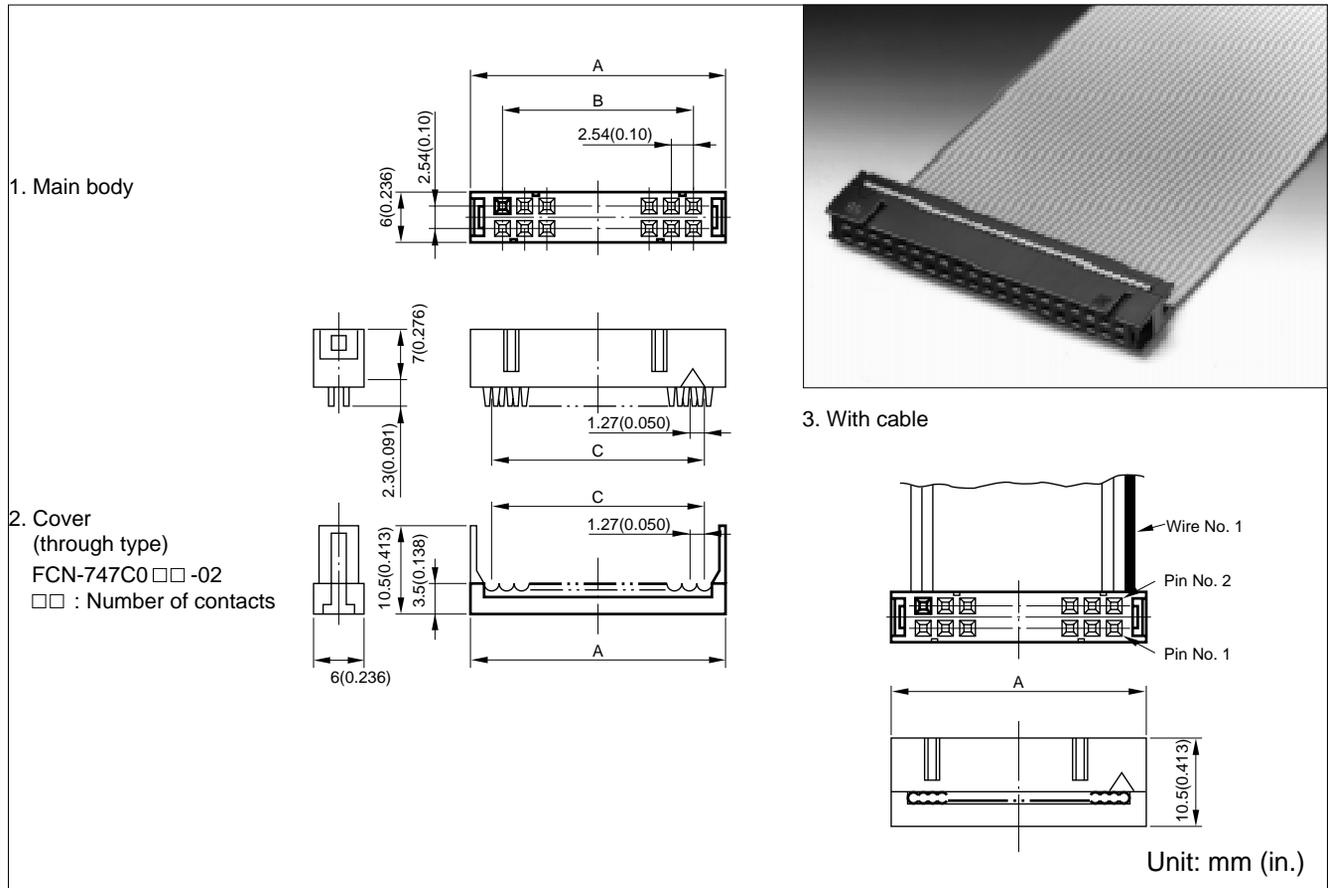


■ PART NUMBERS AND DIMENSIONS

Number of contacts	Part number	Dimensions: mm (in.)			Min. purchase lot quality
		A	B	C	
10	FCN-747J010-AU/B	17.27 (0.680)	10.16 (0.400)	11.43 (0.450)	30
14	FCN-747J014-AU/B	22.35 (0.880)	15.24 (0.600)	16.51 (0.650)	23
16	FCN-747J016-AU/B	24.89 (0.980)	17.78 (0.700)	19.05 (0.750)	21
20	FCN-747J020-AU/B	29.97 (1.180)	22.86 (0.900)	24.13 (0.950)	17
24	FCN-747J024-AU/B	35.05 (1.380)	27.94 (1.100)	29.21 (1.150)	15
26	FCN-747J026-AU/B	37.59 (1.480)	30.48 (1.200)	31.75 (1.250)	14
30	FCN-747J030-AU/B	42.67 (1.680)	35.56 (1.400)	36.83 (1.450)	12
34	FCN-747J034-AU/B	47.75 (1.880)	40.64 (1.600)	41.91 (1.650)	11
40	FCN-747J040-AU/B	55.37 (2.180)	48.26 (1.800)	49.54 (1.950)	9
50	FCN-747J050-AU/B	68.07 (2.680)	60.96 (2.400)	62.23 (2.450)	7
60	FCN-747J060-AU/B	80.77 (3.180)	73.66 (2.900)	74.93 (2.950)	6

IDC SOCKET (CLIP TYPE, THROUGH END COVER)

■ DIMENSIONS

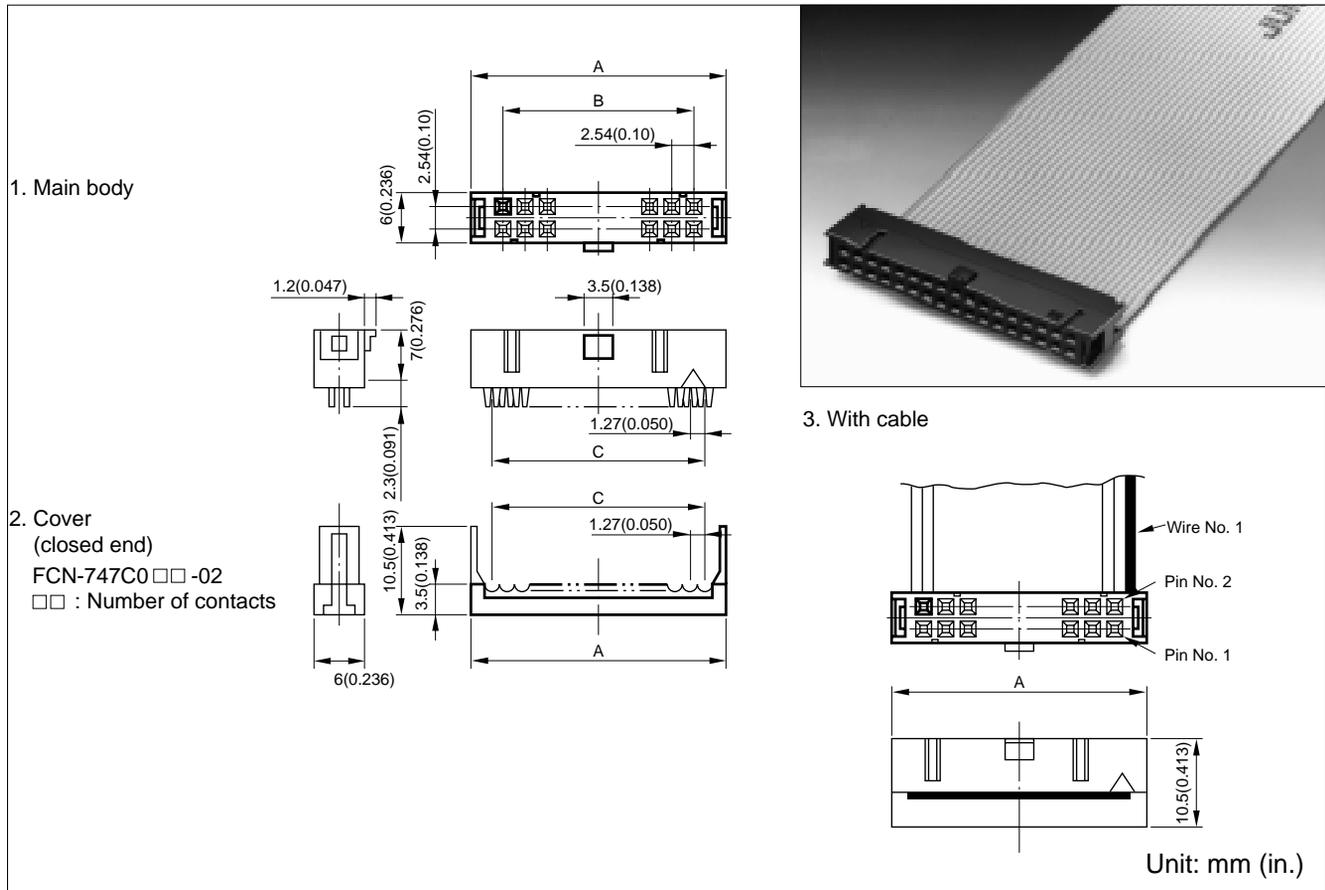


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		A	B	C	
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14	FCN-747J014-AU/0	22.35 (0.880)	15.24 (0.600)	16.51 (0.650)	23
16	FCN-747J016-AU/0	24.89 (0.980)	17.78 (0.700)	19.05 (0.750)	21
20	FCN-747J020-AU/0	29.97 (1.180)	22.86 (0.900)	24.13 (0.950)	17
24	FCN-747J024-AU/0	35.05 (1.380)	27.94 (1.100)	29.21 (1.150)	15
26	FCN-747J026-AU/0	37.59 (1.480)	30.48 (1.200)	31.75 (1.250)	14
30	FCN-747J030-AU/0	42.67 (1.680)	35.56 (1.400)	36.83 (1.450)	12
34	FCN-747J034-AU/0	47.75 (1.880)	40.64 (1.600)	41.91 (1.650)	11
40	FCN-747J040-AU/0	55.37 (2.180)	48.26 (1.800)	49.54 (1.950)	9
50	FCN-747J050-AU/0	68.07 (2.680)	60.96 (2.400)	62.23 (2.450)	7
60	FCN-747J060-AU/0	80.77 (3.180)	73.66 (2.900)	74.93 (2.950)	6

IDC SOCKET (BUMP TYPE, CLOSED END COVER)

■ DIMENSIONS

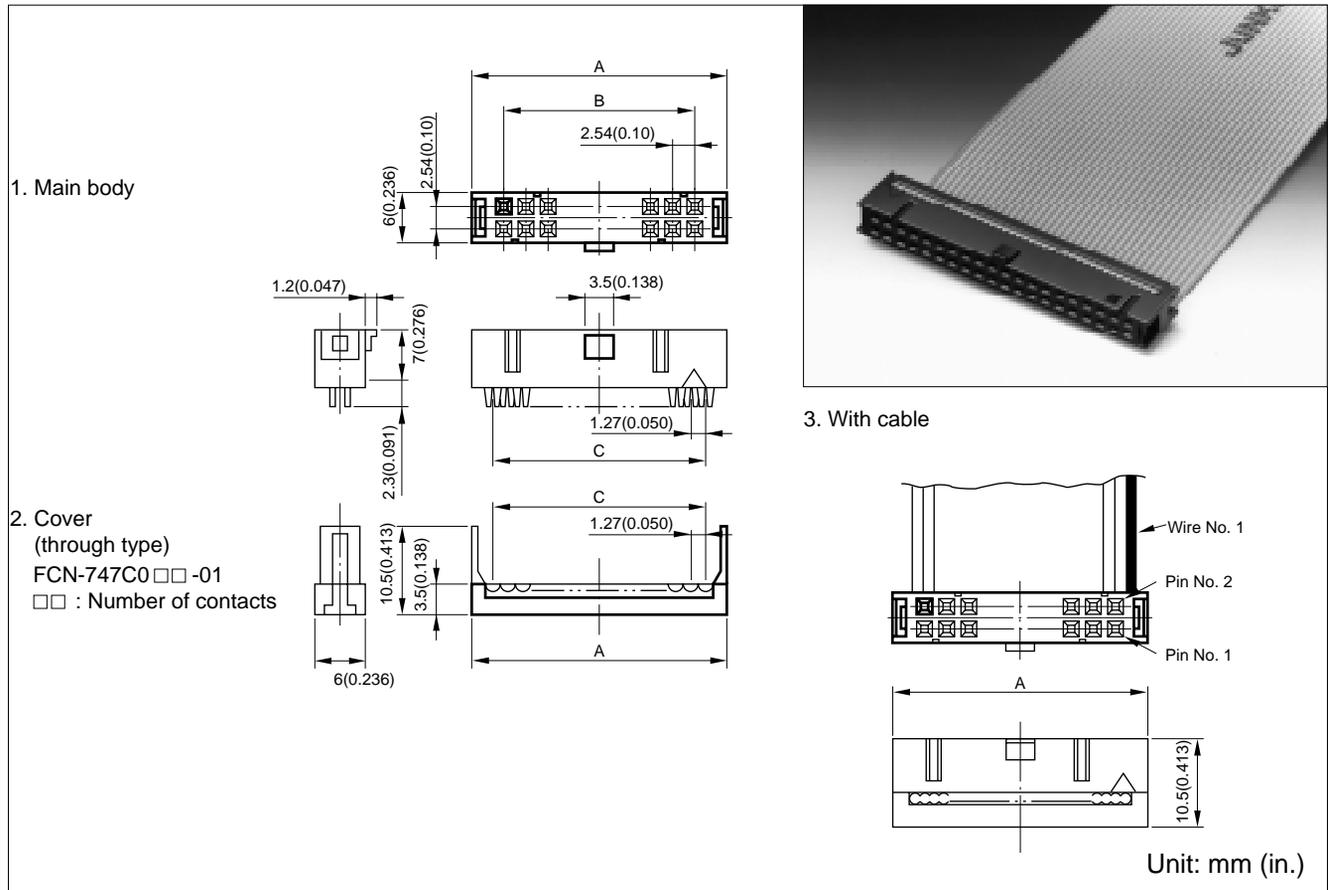


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16	FCN-747B016-AU/B	24.89 (0.980)	17.78 (0.700)	19.05 (0.750)	21
20	FCN-747B020-AU/B	29.97 (1.180)	22.86 (0.900)	24.13 (0.950)	17
24	FCN-747B024-AU/B	35.05 (1.380)	27.94 (1.100)	29.21 (1.150)	15
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50	FCN-747B050-AU/B	68.07 (2.680)	60.96 (2.400)	62.23 (2.450)	7
60	FCN-747B060-AU/B	80.77 (3.180)	73.66 (2.900)	74.93 (2.950)	6

IDC SOCKET (BUMP TYPE, THROUGH END COVER)

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60	FCN-747B060-AU/0	80.77 (3.180)	73.66 (2.900)	74.93 (2.950)	6

Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashigotanda 2-chome, Shinagawa-ku
Tokyo 141-0022, Japan
Tel: (81-3) 5449-7010
Fax: (81-3) 5449-2626
Email: promothq@fcl.fujitsu.com
Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 U.S.A.
Tel: (1-408) 745-4900
Fax: (1-408) 745-4970
Email: components@us.fujitsu.com
Web: <http://us.fujitsu.com/components>

Europe

Fujitsu Components Europe B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: (31-23) 5560910
Fax: (31-23) 5560950
Email: info@fceu.fujitsu.com
Web: emea.fujitsu.com/components

Asia Pacific

Fujitsu Components Asia Ltd.
102E Pasir Panjang Road
#01-01 Citilink Warehouse Complex
Singapore 118529
Tel: (65) 6375-8560
Fax: (65) 6273-3021
Email: fcal@fcal.fujitsu.com
www.fcal.fujitsu.com

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