

FCN-214*/215****-G/0,-217J***-G/0,-214P***-P/0

FCN-210 Series Board Plug/Socket, Cable Socket and PCB Plug Connectors

FEATURES

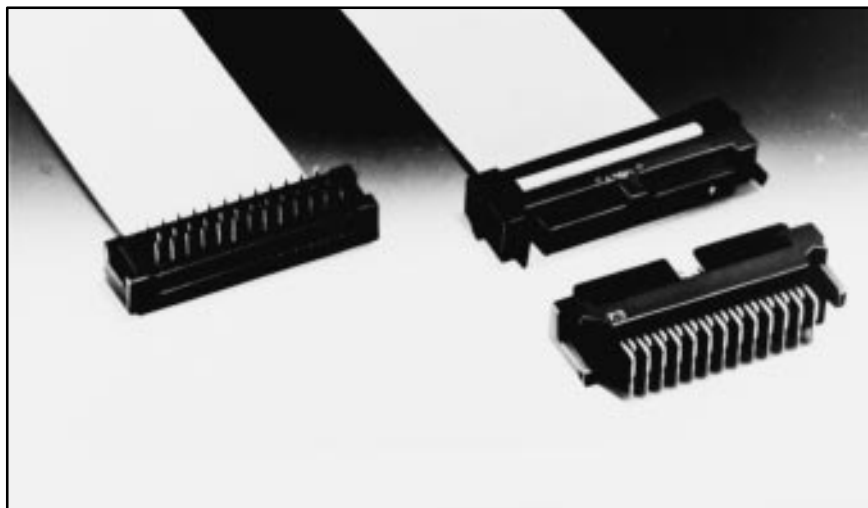
- 1.27 mm (0.05 in) pitch contact arrangement in two rows enables high-density mounting.
- Can be used for any type of connection between boards.
- Terminals are spaced in a four-row zigzag array (1.27 mm (0.05 in) x 1.905 mm (0.075 in)) for easy PC board design.
- Insulation is UL-approved (94V-0).

SPECIFICATIONS

Temperature Range	−55 to +105°C
Current Rating	2 A DC (IDC type: 1.0A)
Voltage Rating	250V AC
Contact Resistance	35 mΩ max (6V DC, 0.1A)
Insulation Resistance	1000 MΩ min (500V AC)
Dielectric Withstand Voltage	500 V AC (for 1 minute)
Insertion Force	Two-piece connectors: 4 kg max. (10-way)
Withdrawal Force	Two-piece connectors: 250 g min. (10-way)
Applicable Wire	Flat cable: 0.635 mm (0.025 in.) pitch AWG #30 (solid wire)

MATERIALS

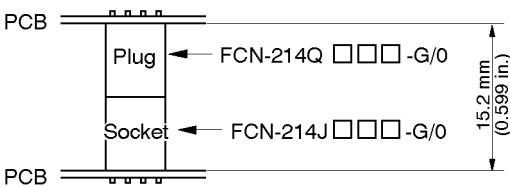
Contact	Copper alloy
Insulator	Polyester UL94V-0
Contact Plating	Gold over palladium over nickel (PAGOS)



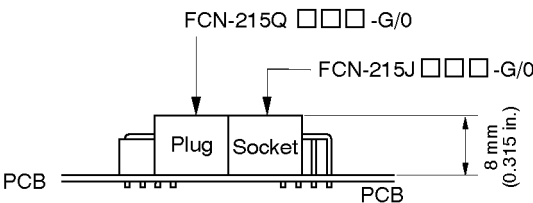
CONNECTOR APPLICATIONS

Two piece connectors

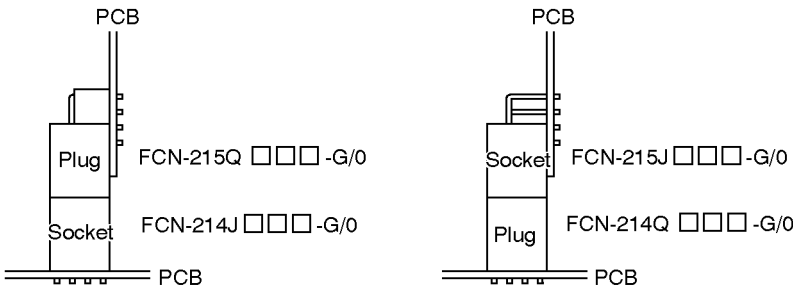
Parallel board connection



Horizontal board connection

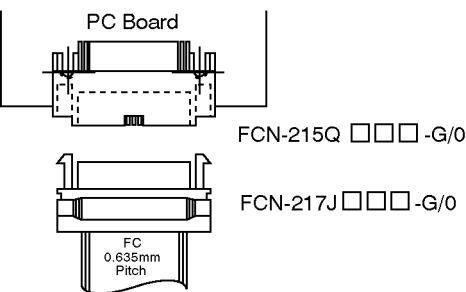


Vertical board connection

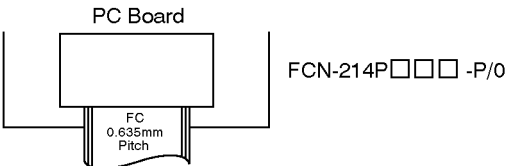


Flat-Cable connectors

With simple lock



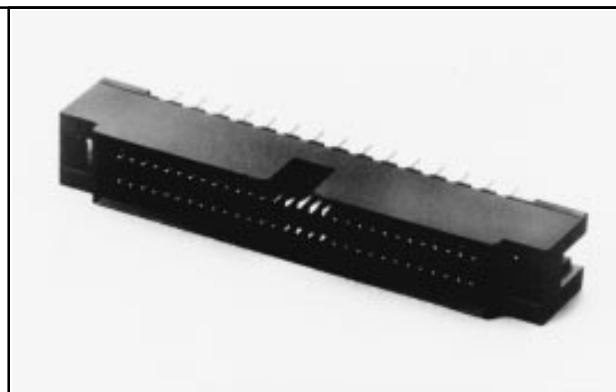
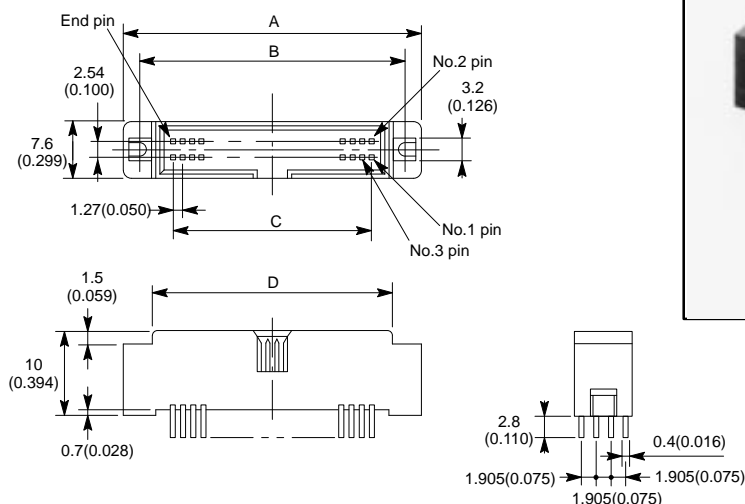
Direct plug



Unit: mm (in.)

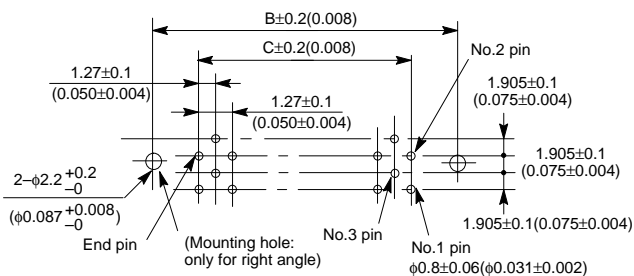
FCN-214Q***-G/0 STRAIGHT HEADER

DIMENSIONS

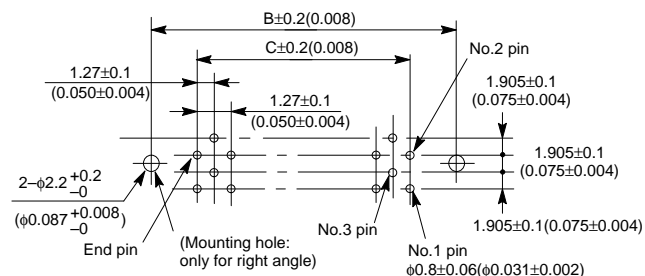


MOUNTING HOLE LAYOUT

30-, 34-, 50-contacts



40-, 60-, 80-, 92-, 100-, 120-contacts



PART NUMBERS

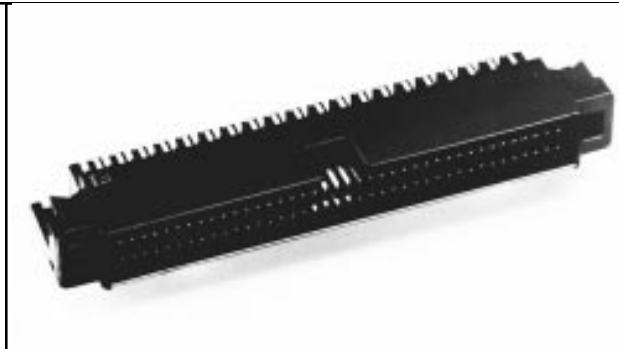
Unit: mm (in.)

No. of Contacts	Part Number	Dimensions			
	Straight	A	B	C	D
30	FCN-214Q030-G/0	31.83(1.253)	26.28(1.035)	17.78(0.700)	23.08(0.909)
34	FCN-214Q034-G/0	34.37(1.353)	28.82(1.135)	20.32(0.800)	25.62(1.009)
40	FCN-214Q040-G/0	38.18(1.503)	32.63(1.285)	24.13(0.950)	29.43(1.159)
50	FCN-214Q050-G/0	44.53(1.753)	38.98(1.535)	30.48(1.200)	35.78(1.409)
60	FCN-214Q060-G/0	50.88(2.003)	45.33(1.785)	36.83(1.450)	42.13(1.659)
80	FCN-214Q080-G/0	63.58(2.503)	58.03(2.285)	49.53(1.950)	54.83(2.159)
92	FCN-214Q092-G/0	71.20(2.803)	65.65(2.585)	57.15(2.250)	62.45(2.459)
100	FCN-214Q100-G/0	76.28(3.003)	70.73(2.785)	62.23(2.450)	69.53(2.659)
120	FCN-214Q120-G/0	88.98(3.503)	83.43(3.285)	74.93(2.950)	80.23(3.159)

Note: Replace "G/0" with "G/A" for type without mounting ear.

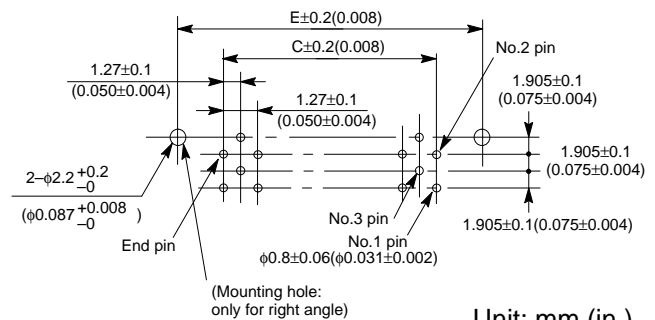
FCN-215Q***-G/0 RIGHT-ANGLE HEADER

DIMENSIONS



MOUNTING HOLE LAYOUT

30-, 34-, 50-contacts



Unit: mm (in.)

PART NUMBERS

No. of Contacts	Part Number	Dimensions				
	Straight	A	B	C	D	E
30	FCN-215Q030-G/0	31.83(1.253)	26.28(1.035)	17.78(0.700)	23.08(0.909)	25.28(0.995)
34	FCN-215Q034-G/0	34.37(1.353)	28.82(1.135)	20.32(0.800)	25.62(1.009)	27.82(1.095)
40	FCN-215Q040-G/0	38.18(1.503)	32.63(1.285)	24.13(0.950)	29.43(1.159)	31.63(1.245)
50	FCN-215Q050-G/0	44.53(1.753)	38.98(1.535)	30.48(1.200)	35.78(1.409)	37.98(1.495)
60	FCN-215Q060-G/0	50.88(2.003)	45.33(1.785)	36.83(1.450)	42.13(1.659)	44.33(1.745)
80	FCN-215Q080-G/0	63.58(2.503)	58.03(2.285)	49.53(1.950)	54.83(2.159)	57.03(2.245)
92	FCN-215Q092-G/0	71.20(2.803)	65.65(2.585)	57.15(2.250)	62.45(2.459)	64.65(2.545)
100	FCN-215Q100-G/0	76.28(3.003)	70.73(2.785)	62.23(2.450)	69.53(2.659)	69.73(2.745)
120	FCN-215Q120-G/0	88.98(3.503)	83.43(3.285)	74.93(2.950)	80.23(3.159)	82.43(3.245)

Note: Replace “-G/0” with “-G/A” for type without mounting ear.

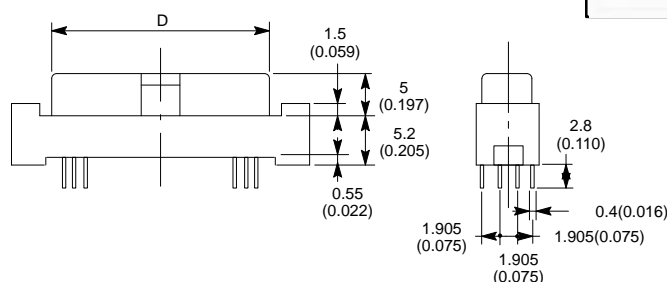
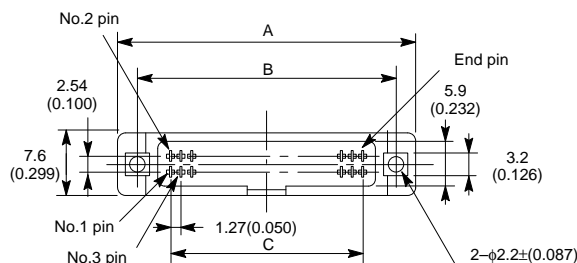
FCN-214*/215****-G/0

FCN-217J***-G/0

FCN-214P***-P/0

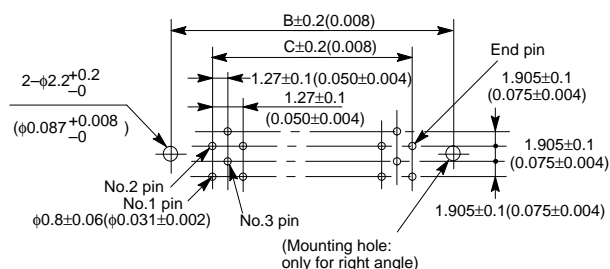
FCN-214J***-G/0 STRAIGHT SOCKET

DIMENSIONS

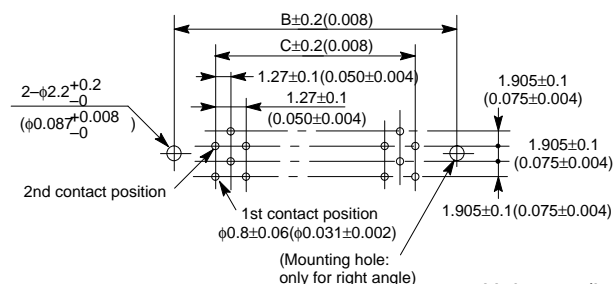


MOUNTING HOLE LAYOUT

30-, 34-, 50-contacts



40-, 60-, 80-, 92-, 100-, 120-contacts



Unit: mm (in.)

PART NUMBERS

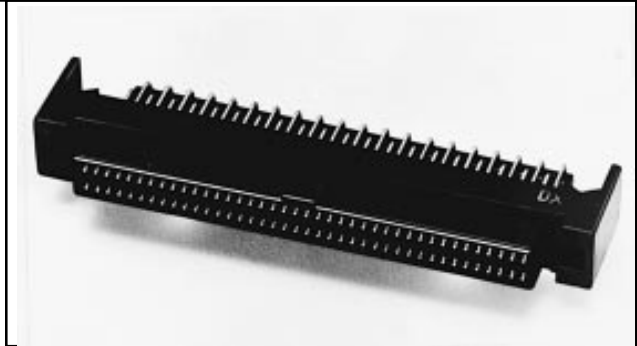
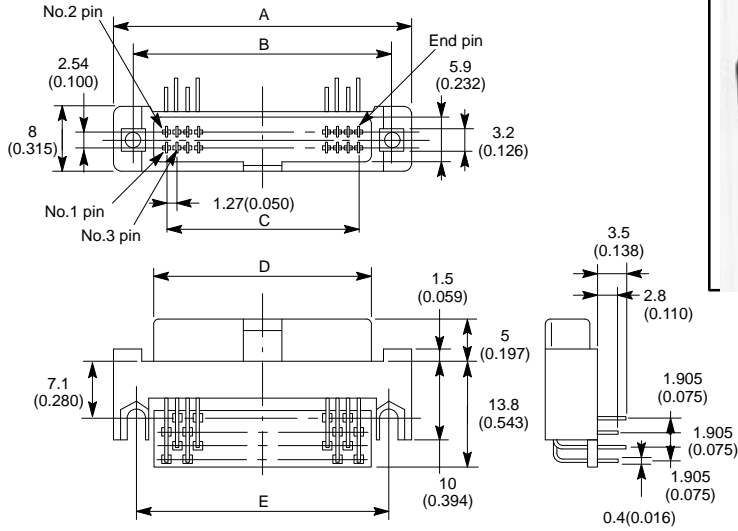
No. of Contacts	Part Number	Dimensions			
	Straight	A	B	C	D
30	FCN-214J030-G/0	31.83(1.253)	26.28(1.035)	17.78(0.700)	20.68(0.814)
34	FCN-214J034-G/0	34.37(1.353)	28.82(1.135)	20.32(0.800)	23.22(0.914)
40	FCN-214J040-G/0	38.18(1.503)	32.63(1.285)	24.13(0.950)	27.03(1.064)
50	FCN-214J050-G/0	44.53(1.753)	38.98(1.535)	30.48(1.200)	33.38(1.314)
60	FCN-214J060-G/0	50.88(2.003)	45.33(1.785)	36.83(1.450)	39.73(1.564)
80	FCN-214J080-G/0	63.58(2.503)	58.03(2.285)	49.53(1.950)	52.43(2.064)
92	FCN-214J092-G/0	71.20(2.803)	65.65(2.585)	57.15(2.250)	60.05(2.364)
100	FCN-214J100-G/0	76.28(3.003)	70.73(2.785)	62.23(2.450)	65.13(2.564)
120	FCN-214J120-G/0	88.98(3.503)	83.43(3.285)	74.93(2.950)	77.83(3.064)

Note: Replace "G/0" with "G/A" for type without mounting ear.

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FCN-215J***-G/0 RIGHT-ANGLE SOCKET

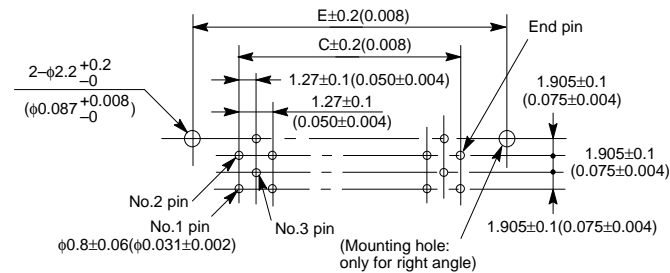
DIMENSIONS



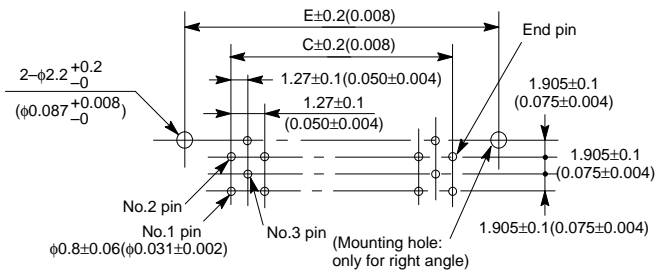
2

MOUNTING HOLE LAYOUT

30-, 34-, 50-contacts



40-, 60-, 80-, 92-, 100-, 120-contacts



PART NUMBERS

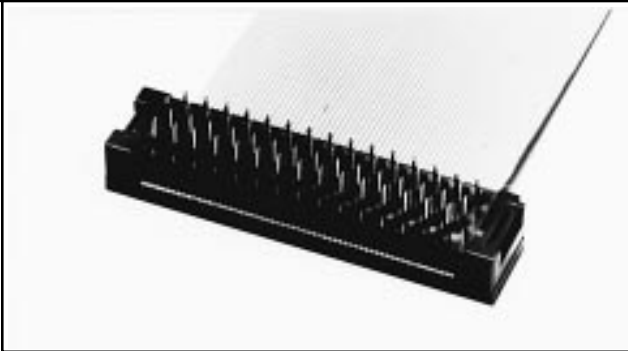
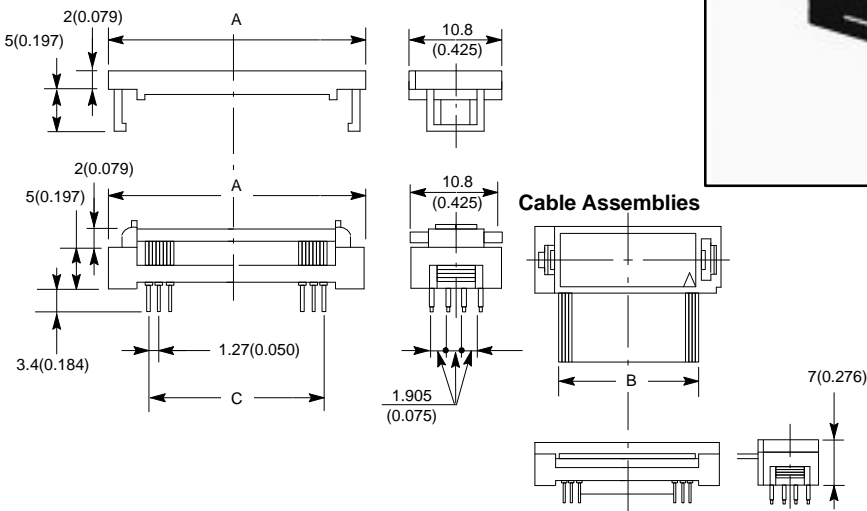
Unit: mm (in.)

No. of Contacts	Part Number	Dimensions				
	Straight	A	B	C	D	E
30	FCN-215J030-G/0	31.83(1.253)	26.28(1.035)	17.78(0.700)	20.68(0.814)	25.28(0.995)
34	FCN-215J034-G/0	34.37(1.353)	28.82(1.135)	20.32(0.800)	23.22(0.914)	27.82(1.095)
40	FCN-215J040-G/0	38.18(1.503)	32.63(1.285)	24.13(0.950)	27.03(1.064)	31.63(1.245)
50	FCN-215J050-G/0	44.53(1.753)	38.98(1.535)	30.48(1.200)	33.38(1.314)	37.98(1.495)
60	FCN-215J060-G/0	50.88(2.003)	45.33(1.785)	36.83(1.450)	39.73(1.564)	44.33(1.745)
80	FCN-215J080-G/0	63.58(2.503)	58.03(2.285)	49.53(1.950)	52.43(2.064)	57.03(2.245)
92	FCN-215J092-G/0	71.20(2.803)	65.65(2.585)	57.15(2.250)	60.05(2.364)	64.65(2.545)
100	FCN-215J100-G/0	76.28(3.003)	70.73(2.785)	62.23(2.450)	65.13(2.564)	69.73(2.745)
120	FCN-215J120-G/0	88.98(3.503)	83.43(3.285)	74.93(2.950)	77.83(3.064)	82.43(3.245)

Note: Replace "G/0" with "G/A" for type without mounting ear.

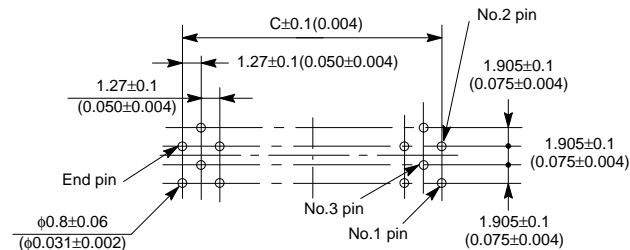
FCN-214P***-P/0 PCB PLUG

DIMENSIONS

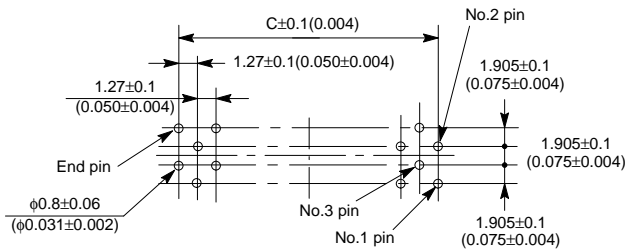


MOUNTING HOLE LAYOUT

30-, 34-, 50-contacts



40-, 60-, 80-contacts

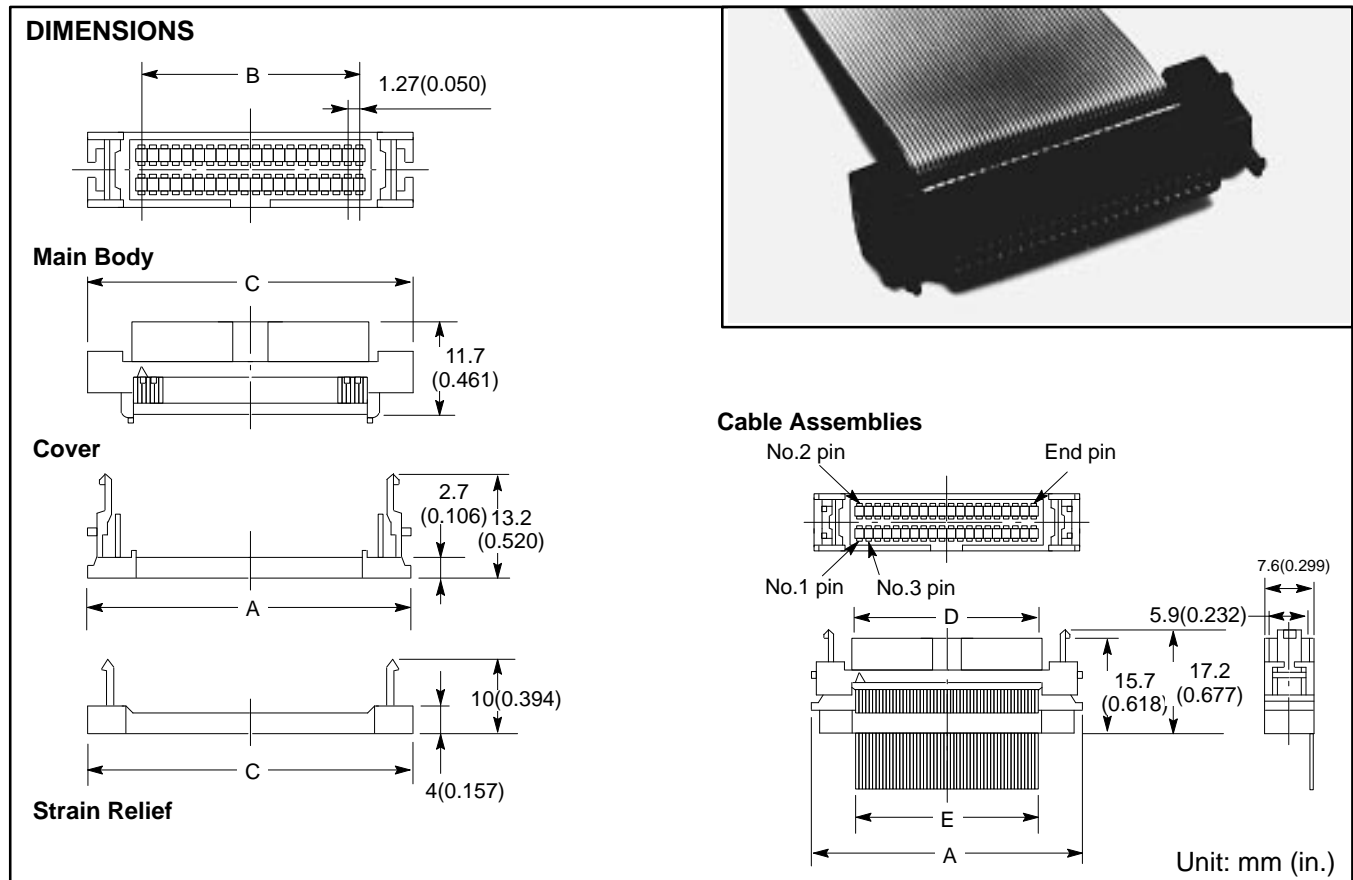


PART NUMBERS FOR PCB CONNECTORS

Unit: mm (in.)

No. of Contacts	Part Number	Dimensions		
		A	B	C
30	FCN-214P030-P/0	28.35(1.116)	19.05(0.750)	17.78(0.700)
34	FCN-214P034-P/0	30.89(1.216)	21.59(0.850)	20.32(0.800)
40	FCN-214P040-P/0	34.70(1.366)	25.40(1.000)	24.13(0.950)
50	FCN-214P050-P/0	41.05(1.616)	31.75(1.250)	30.48(1.200)
60	FCN-214P060-P/0	47.40(1.866)	38.10(1.500)	36.83(1.450)
80	FCN-214P080-P/0	60.10(2.366)	50.80(2.000)	49.53(1.950)

FCN-217J***-G/0 IDC SOCKET



2

PART NUMBERS FOR IDC SOCKET

No. of Contacts	Part Number	Dimensions				
		A	B	C	D	E
30	FCN-217J030-G/0	33.43(1.316)	17.78(0.700)	31.83(1.253)	20.68(0.814)	19.05(0.750)
34	FCN-217J034-G/0	35.97(1.416)	20.32(0.800)	34.37(1.353)	23.22(0.914)	21.59(0.850)
40	FCN-217J040-G/0	39.78(1.566)	24.13(0.950)	38.18(1.503)	27.03(1.064)	25.40(1.000)
50	FCN-217J050-G/0	46.13(1.816)	30.48(1.200)	44.53(1.753)	33.38(1.314)	31.75(1.250)
60	FCN-217J060-G/0	52.48(2.066)	36.83(1.450)	50.88(2.003)	39.73(1.564)	38.10(1.500)
80	FCN-217J080-G/0	65.18(2.566)	49.53(1.950)	63.58(2.503)	52.43(2.064)	50.80(2.000)
100	FCN-217J100-G/0	77.88(3.066)	62.23(2.450)	76.28(3.003)	65.13(2.564)	63.50(2.500)

PART NUMBERS FOR IDC TOOLS

Tool Name	Part Number
Cable cutter (common)	FCN-707T-T001/H
Hand press (common) To be used with locator plate FCN-217T-T032/H and FCN-217T-T034/H	FCN-707T-T101/H
Hand press (special) To be used with locator plate FCN-217T-T073/H	FCN-707T-T107/H
Locator plate (socket) (FCN-217J□□□ – Series)	FCN-217T-T073/H (80 and 100 position)
Locator plate (socket) (FCN-217J□□□ – Series)	FCN-217T-T032/H (30 thru 60 position)
Locator plate (PCB plug) (FCN-217P□□□ – Series)	FCN-217T-T034/H