

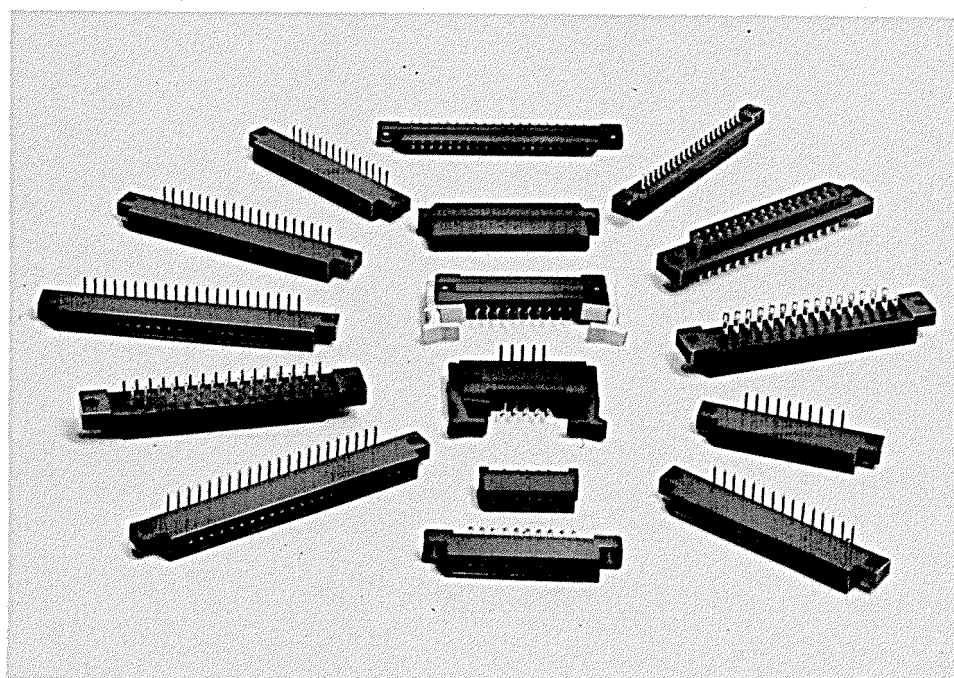
3746

PCN6 SERIES 2.5mm CENTERS FACE TO FACE CONNECTORS

General

PCN6 series is a collection of high performance miniature printed circuit connectors for interconnection. The termi-

nation is available in three types which are soldering eyelet, dip soldering, and crimping.



1. Error-free polarization by trapezoidal molding design
2. UL94V-0 glass-reinforced polycarbonate as molding material
3. Low cost by mass production
4. Insertion and extraction force: 57 — 450 grs.
5. Applicable wire for crimping: AWG22 — 26 stranded

Material and Finish

Item	Material	Finish
Molding	Glass-reinforced polycarbonate	Blue colour UL94V-0
Pin contact	Brass	Silver plating.
Socket contact	Phosphor bronze	Silver plating

Electrical

Contact resistance: 10mΩ or less at DC1 amp
 Insulation resistance: 1,000 MΩ or more at DC500V
 Withstand voltage: AC650V r.m.s.
 Current rating: 3 amps
 Temperature cycling: -30 to +80°C
 Durability: 15mV MAX. at DC1A after 500 times insertion
 Dry circuit: DC 10 μV MAX.
 Humidity: 500MΩ MIN. at 40±2°C, 90-95% for 96 hours

Ordering Information

PCN6 A - 20 PA - 2.5 DS

Series No. _____

Molding type _____

- A: without mounting ear
 Blank: with mounting ear
 B: with mounting ear for using PCN6 LOCK (C)

No. of pin _____

5, 10, 15, 20, 22 and 31

Type of pin _____

- S: socket contact
 P: pin contact
 PA: right angle pin contact

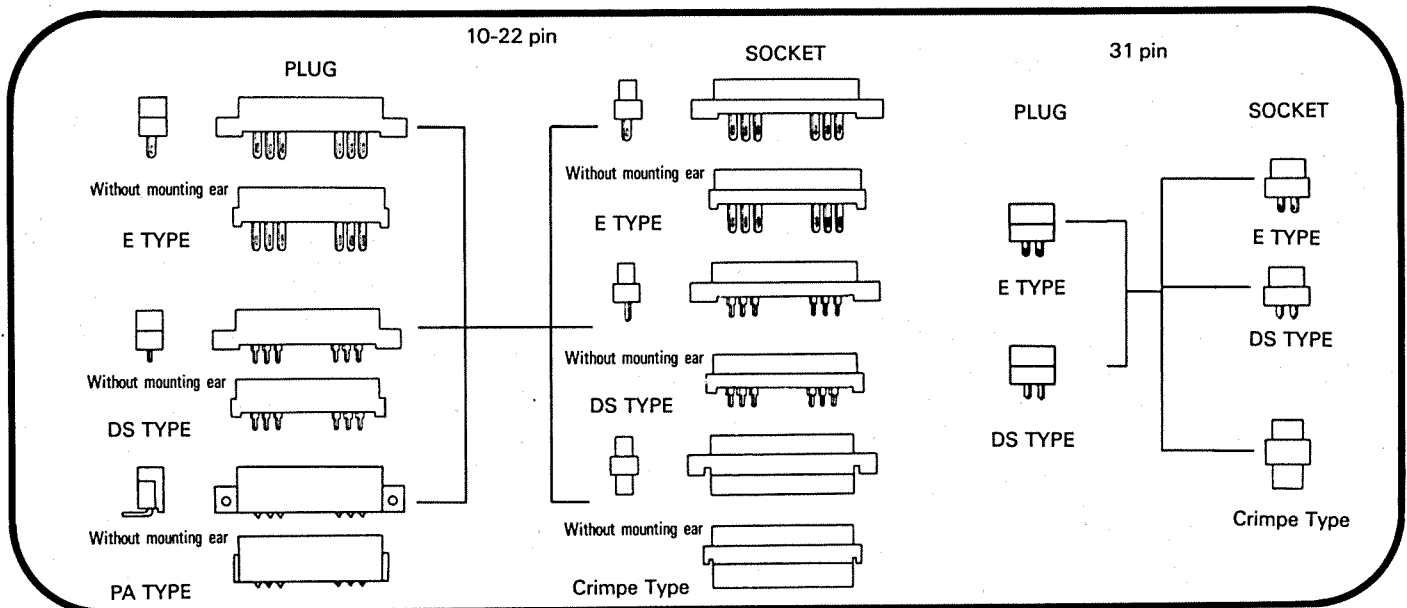
Contact spacing _____

2.5 mm

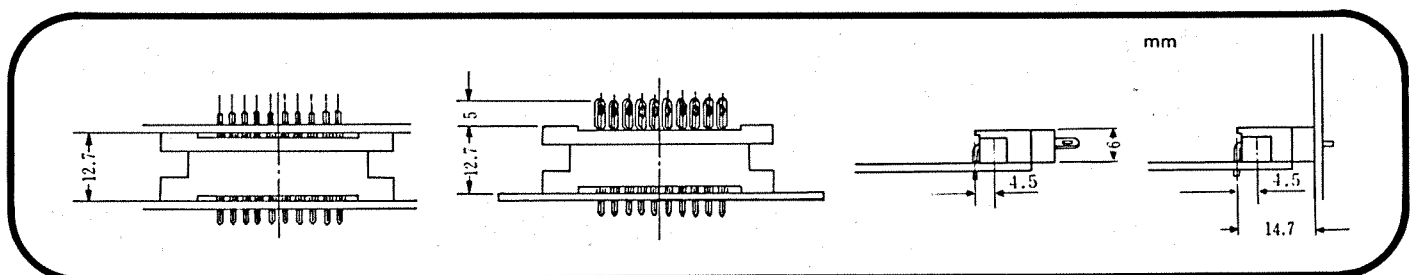
Type of terminal _____

- DS: straight dip soldering
 E: soldering eyelet
 C: crimping

Coupling Combination

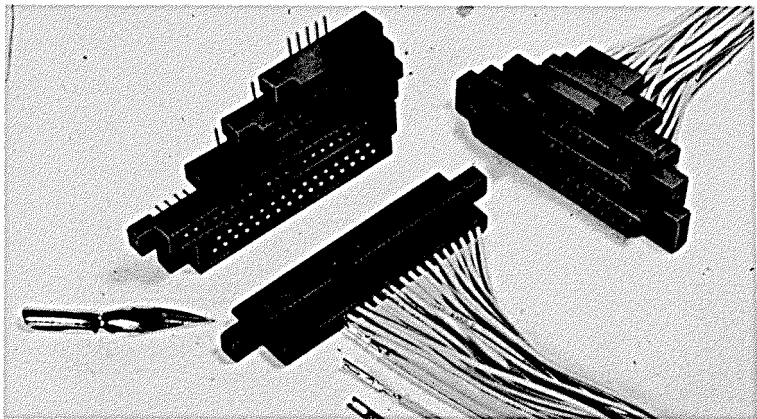
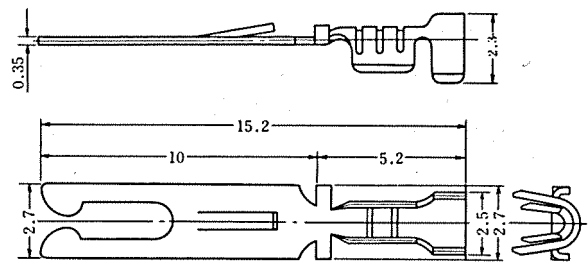


Coupling Side View



Crimp Socket Contact

mm (inch)			
Part No.	Type	Applicable cable	Packing
PCN6-2226SCF	Chain contact	AWG22-26	10,000 pin per roll
PCN6-2226SC	Bulk contact	AWG22-26	100 pin per bag

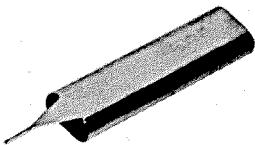


Tools

Manual crimping tool
Part No.: PCN6-T2226HC



Pull-out tool



Model No.: PCN6-P0

Automatic crimper



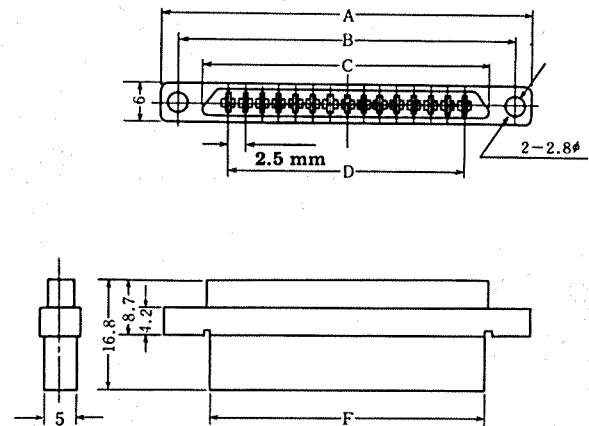
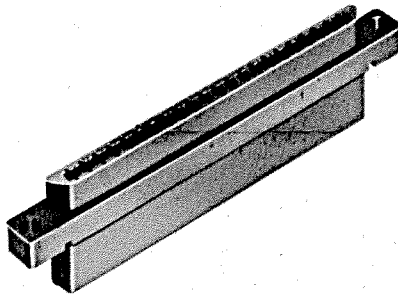
Main body
Model No.: HRS-AT1
Applicator
Model No.: PCN6-2226AP

Main Specifications of Automatic Crimper

- | | |
|----------------------|-------------------------|
| 1. Power source | AC100V (50 Hz or 60 Hz) |
| 2. Capacity | 1.8 TON |
| 3. Stroke | 30 mm |
| 4. Rotational speed | 3,000 rpm |
| 5. Gross weight | 105 kg |
| 6. Crimping capacity | 6,000 pieces/hour |

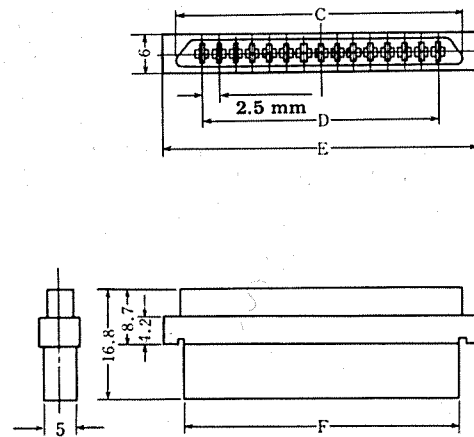
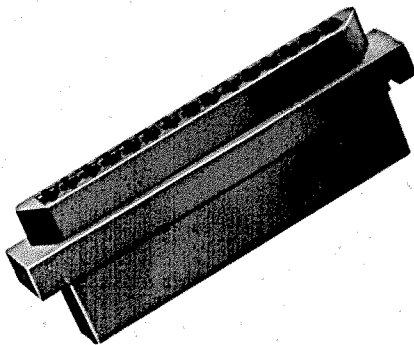
Crimp Socket Housing

With Mounting Ear



mm (inch)						
Part No.	No. of pin	A	B	C	D	F
PCN6- 5S-2.5C	5	30.00 (1.181)	25.00 (.984)	17.30 (.810)	10.00 (.394)	15.50 (.612)
PCN6-10S-2.5C	10	42.50 (1.673)	37.50 (1.476)	29.80 (1.173)	22.50 (.886)	28.00 (1.102)
PCN6-15S-2.5C	15	55.00 (2.165)	50.00 (1.968)	42.30 (1.665)	35.00 (1.378)	40.50 (1.594)
PCN6-20S-2.5C	20	67.50 (2.657)	62.50 (2.461)	54.80 (2.157)	47.50 (1.870)	53.00 (2.087)
PCN6-22S-2.5C	22	72.5 (2.854)	67.50 (2.657)	59.80 (2.354)	52.50 (2.067)	58.00 (2.283)

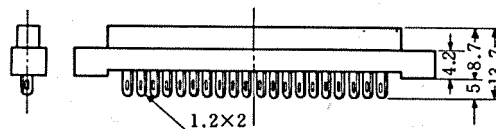
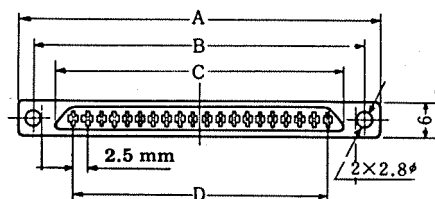
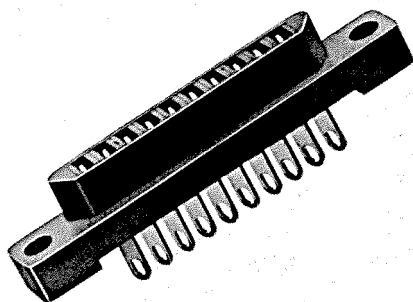
Without Mounting Ear



mm (inch)					
Part No.	No. of pin	E	C	D	F
PCN6A- 5S-2.5C	5	22.00 (.866)	17.30 (.681)	10.00 (.394)	15.50 (.612)
PCN6A-10S-2.5C	10	34.50 (1.358)	29.80 (1.173)	22.50 (.886)	28.00 (1.102)
PCN6A-15S-2.5C	15	47.00 (1.850)	42.30 (1.665)	35.00 (1.378)	40.50 (1.594)
PCN6A-20S-2.5C	20	59.50 (2.343)	54.80 (2.157)	47.50 (1.870)	53.00 (2.087)
PCN6A-22S-2.5C	22	64.50 (2.539)	59.80 (2.354)	52.50 (2.067)	58.00 (2.283)

Socket with Soldering Eyelet

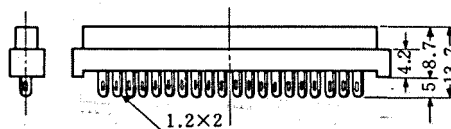
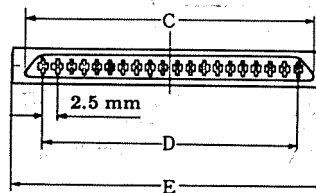
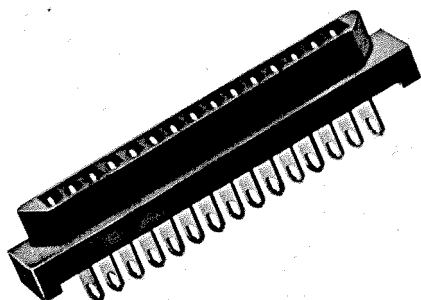
With Mounting Ear



mm (inch)

Part No.	No. of pin	A	B	C	D
PCN6- 5S-2.5E	5	30.00 (1.181)	25.00 (.984)	17.30 (.810)	10.00 (.394)
PCN6-10S-2.5E	10	42.50 (1.673)	37.50 (1.476)	29.80 (1.173)	22.50 (.886)
PCN6-15S-2.5E	15	55.00 (2.165)	50.00 (1.968)	42.30 (1.665)	35.00 (1.378)
PCN6-20S-2.5E	20	67.50 (2.657)	62.50 (2.461)	54.80 (2.157)	47.50 (1.870)
PCN6-22S-2.5E	22	72.5 (2.854)	67.50 (2.657)	59.80 (2.354)	52.50 (2.067)

Without Mounting Ear

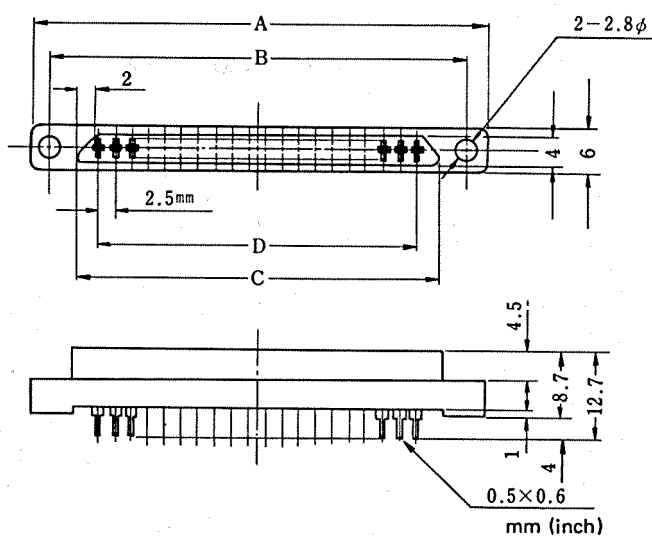
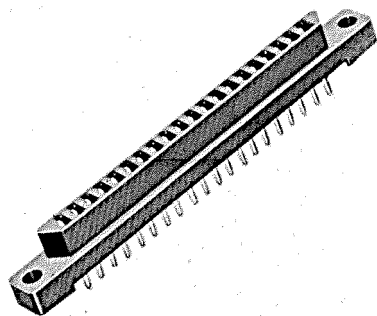


mm (inch)

Part No.	No. of pin	E	C	D
PCN6A- 5S-2.5E	5	22.00 (.866)	17.30 (.681)	10.00 (.394)
PCN6A-10S-2.5E	10	34.50 (1.358)	29.80 (1.173)	22.50 (0.886)
PCN6A-15S-2.5E	15	47.00 (1.850)	42.30 (1.665)	35.00 (1.378)
PCN6A-20S-2.5E	20	59.50 (2.343)	54.80 (2.157)	47.50 (1.870)
PCN6A-22S-2.5E	22	64.50 (2.539)	59.80 (2.354)	52.50 (2.067)

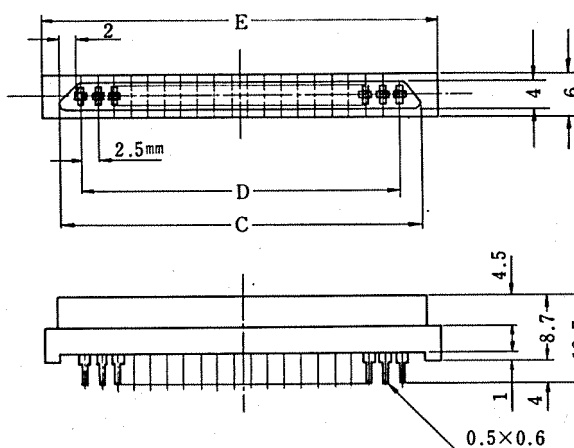
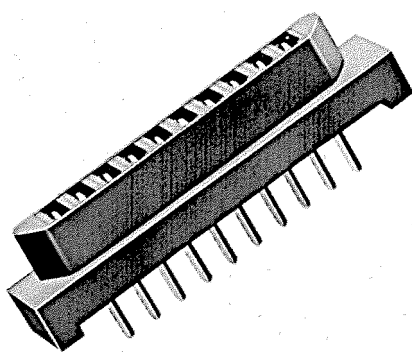
Socket with Straight Dip Soldering

With Mounting Ear



Part No.	No. of Pin	A	B	C	D
PCN6- 5S-2.5DS	5	30.00 (1.81)	25.00 (.984)	17.30 (.810)	10.00 (.394)
PCN6-10S-2.5DS	10	42.50 (1.673)	37.50 (1.476)	29.80 (1.173)	22.50 (.886)
PCN6-15S-2.5DS	15	55.00 (2.165)	50.00 (1.968)	42.30 (1.665)	35.00 (1.378)
PCN6-20S-2.0DS	20	67.50 (2.657)	82.50 (2.461)	54.80 (2.157)	47.50 (1.870)
PCN6-22S-2.5DS	22	72.50 (2.850)	67.50 (2.657)	59.80 (2.354)	52.50 (2.067)

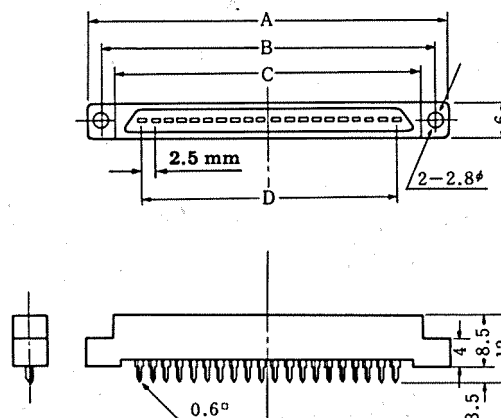
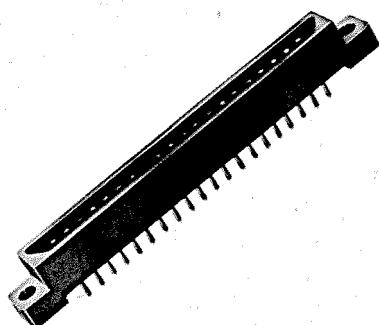
Without Mounting Ear



Part No.	No. of pin	E	C	D
PCN6A- 5S-2.5DS	5	22.00 (.866)	17.30 (.681)	10.00 (.394)
PCN6A-10S-2.5DS	10	34.50 (1.358)	29.80 (1.173)	22.50 (0.886)
PCN6A-15S-2.5DS	15	47.00 (1.850)	42.30 (1.665)	35.00 (1.378)
PCN6A-20S-2.5DS	20	59.50 (2.343)	54.80 (2.157)	47.50 (1.870)
PCN6A-22S-2.5DS	22	64.50 (2.539)	59.80 (2.354)	52.50 (2.067)

Plug with Straight Dip Soldering

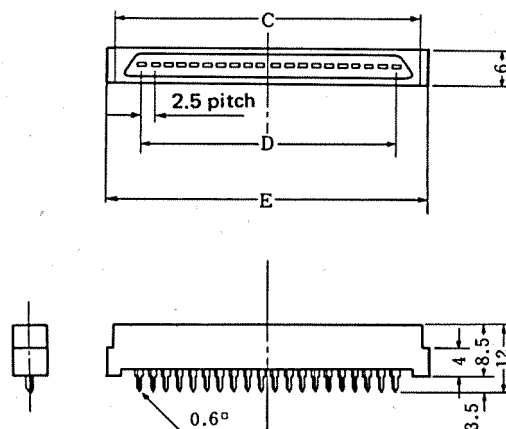
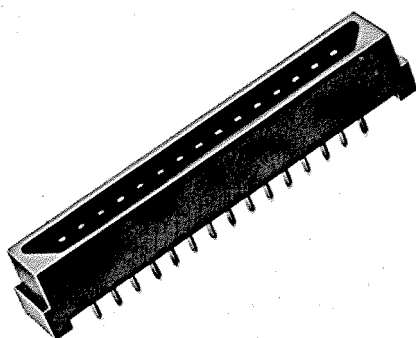
With Mounting Ear



Part No.	No. of pin	mm (inch)			
		A	B	C	D
PCN6B— 5P—2.5DS	5	30.00 (1.181)	25.00 (.984)	20.00 (.787)	10.00 (.394)
PCN6B—10P—2.5DS	10	42.50 (1.673)	37.50 (1.476)	32.50 (1.280)	22.50 (.886)
PCN6B—15P—2.5DS	15	55.00 (2.165)	50.00 (1.969)	45.00 (1.772)	35.00 (1.378)
PCN6B—20P—2.5DS	20	67.50 (2.657)	62.50 (2.461)	57.50 (2.264)	47.50 (1.870)
PCN6B—22P—2.5DS	22	72.50 (2.854)	67.50 (2.657)	62.50 (2.461)	52.50 (2.067)

Note: PCN6B type is designed for using PCN6 LOCK (C).

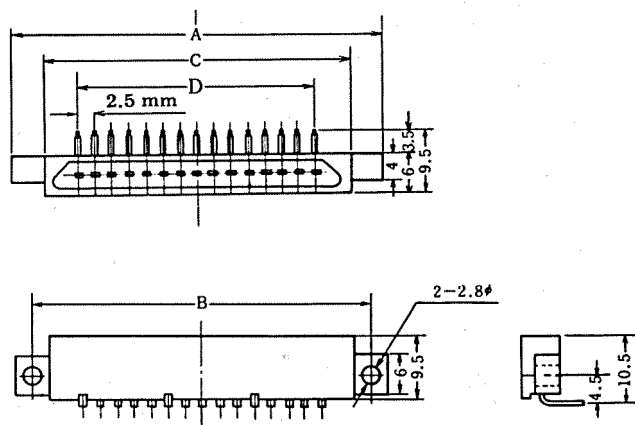
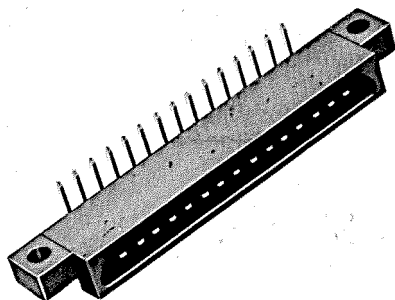
Without Mounting Ear



Part No.	No. of pin	mm (inch)		
		E	C	D
PCN6A— 5P—2.5DS	5	22.00 (.866)	20.00 (.787)	10.00 (.394)
PCN6A—10P—2.5DS	10	34.50 (1.358)	32.50 (1.280)	22.50 (.886)
PCN6A—15P—2.5DS	15	47.00 (1.850)	45.00 (1.772)	35.00 (1.378)
PCN6A—20P—2.5DS	20	59.50 (2.343)	57.50 (2.264)	47.50 (1.870)
PCN6A—22P—2.5DS	22	64.50 (2.539)	62.50 (2.461)	52.50 (2.067)

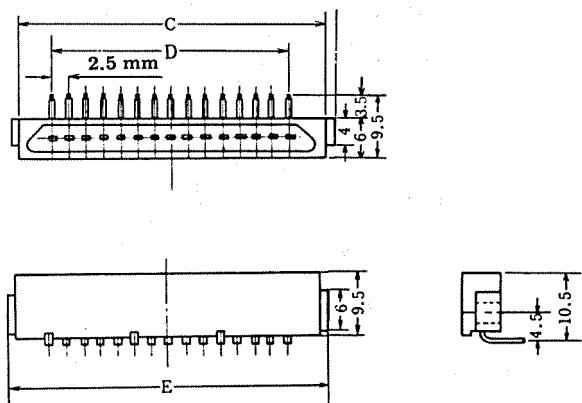
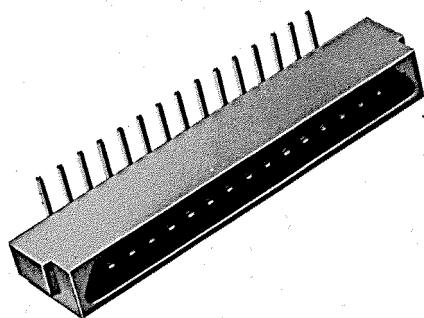
Plug with Right Angle Dip Soldering

With Mounting Ear



Part No.	No. of pin	mm (inch)			
		A	B	C	D
PCN6- 5PA-2.5DS	5	30.00 (1.181)	25.00 (.984)	20.00 (.787)	10.00 (.394)
PCN6-10PA-2.5DS	10	42.50 (1.673)	37.50 (1.476)	32.50 (1.280)	22.50 (.886)
PCN6-15PA-2.5DS	15	55.00 (2.165)	50.00 (1.969)	45.00 (1.772)	35.00 (1.378)
PCN6-20PA-2.5DS	20	67.50 (2.657)	62.50 (2.461)	57.50 (2.264)	47.50 (1.870)
PCN6-22PA-2.5DS	22	72.50 (2.854)	67.50 (2.657)	62.50 (2.461)	52.50 (2.067)

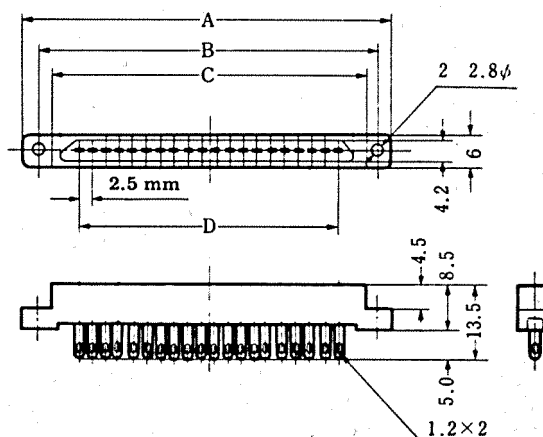
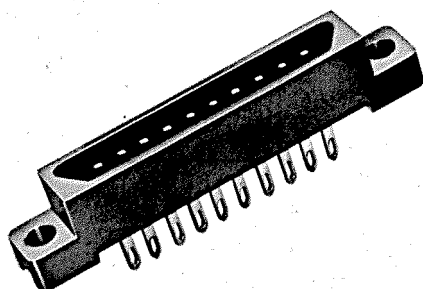
Without Mounting Ear



Part No.	No. of pin	mm (inch)		
		E	C	D
PCN6A- 5PA-2.5DS	5	22.00 (.866)	20.00 (.787)	10.00 (.394)
PCN6A-10PA-2.5DS	10	34.50 (1.358)	32.50 (1.280)	22.50 (.886)
PCN6A-15PA-2.5DS	15	47.00 (1.850)	45.00 (1.772)	35.00 (1.378)
PCN6A-20PA-2.5DS	20	59.50 (2.343)	57.50 (2.264)	47.50 (1.870)
PCN6A-22PA-2.5DS	22	64.50 (2.539)	62.50 (2.461)	52.50 (2.067)

Plug with Soldering Eyelet

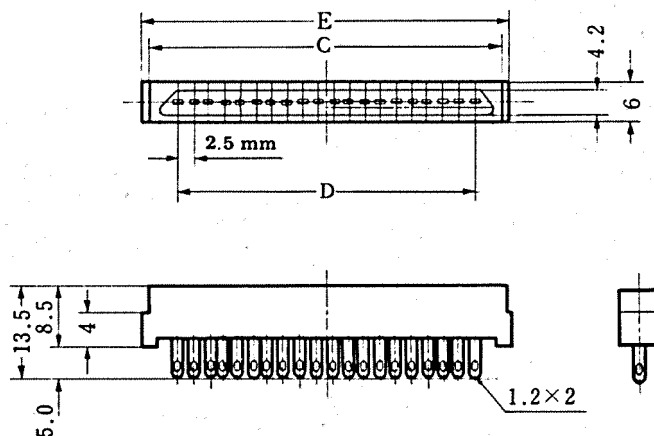
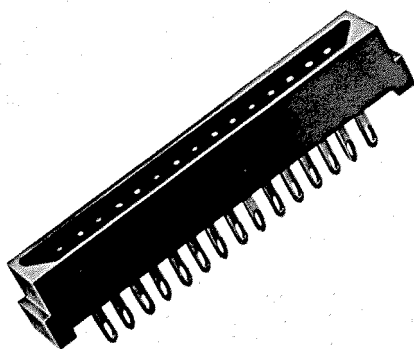
With Mounting Ear



mm (inch)					
Part No.	No. of pin	A	B	C	D
PCN6B- 5P-2.5E	5	30.00 (1.181)	25.00 (.984)	20.00 (.787)	10.00 (.394)
PCN6B-10P-2.5E	10	42.50 (1.673)	37.50 (1.476)	32.50 (1.280)	22.50 (.886)
PCN6B-15P-2.5E	15	55.00 (2.165)	50.00 (1.969)	45.00 (1.772)	35.00 (1.378)
PCN6B-20P-2.5E	20	67.50 (2.657)	62.50 (2.461)	57.50 (2.264)	47.50 (1.870)
PCN6B-22P-2.5E	22	72.50 (2.854)	67.50 (2.657)	62.50 (2.461)	52.50 (2.067)

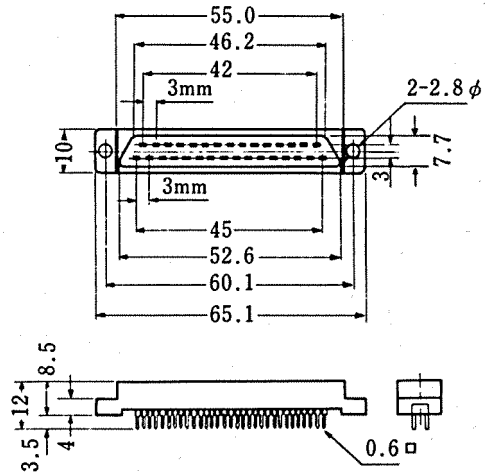
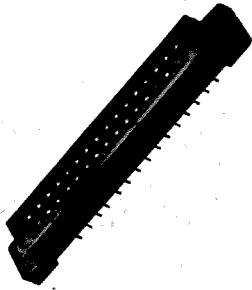
Note: PCN6B type is designed for using PCN6 LOCK (C).

Without Mounting Ear



mm (inch)				
Part No.	No. of pin	E	C	D
PCN6A- 5P-2.5E	5	22.00 (.866)	20.00 (.787)	10.00 (.394)
PCN6A-10P-2.5E	10	34.50 (1.358)	32.50 (1.280)	22.50 (.886)
PCN6A-15P-2.5E	15	47.00 (1.850)	45.00 (1.772)	35.00 (1.378)
PCN6A-20P-2.5E	20	59.50 (2.343)	57.50 (2.264)	47.50 (1.870)

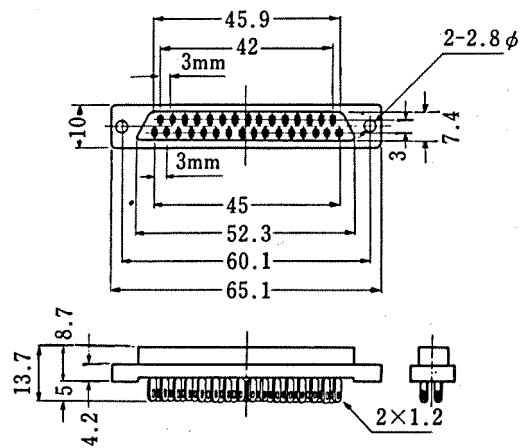
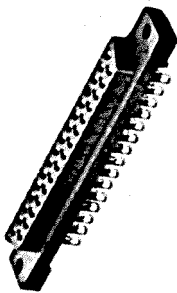
31 Pin Plug with Mounting Ear



HRS No.	Part No.
※CL581-0189-4	PCN6B-31PT-1.5DS

※Standard product

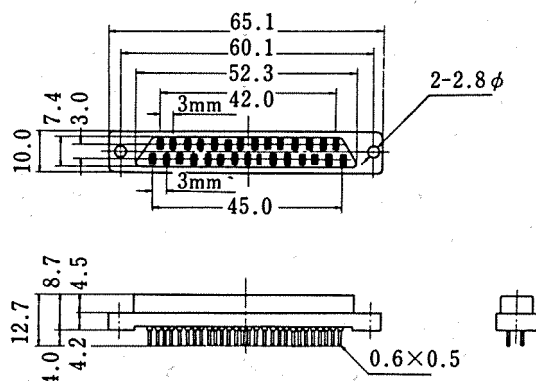
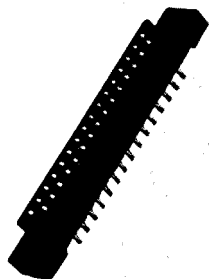
31 Pin Socket with Mounting Ear



HRS No.	Part No.
※CL581-0134-2	PCN6-31ST-1.5E

※Standard product

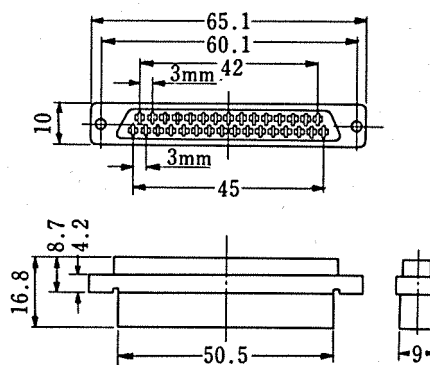
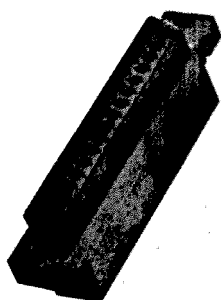
31 Pin Socket with Mounting Ear



HRS No.	Part No.
※CL581-0135-5	PCN6-31ST-1.5DS

※Standard product

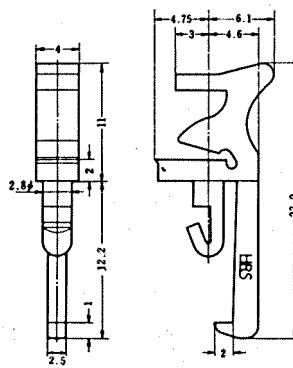
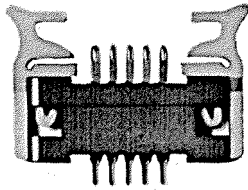
31 Pin Crimp Socket Housing



HRS No.	Part No.
※CL581-0142-0	PCN6-31ST-1.5C

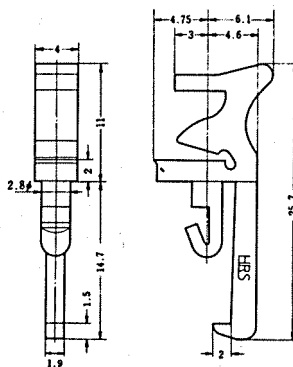
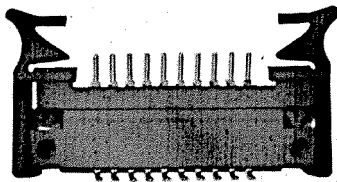
※Standard product

PCN6 LOCK (C)



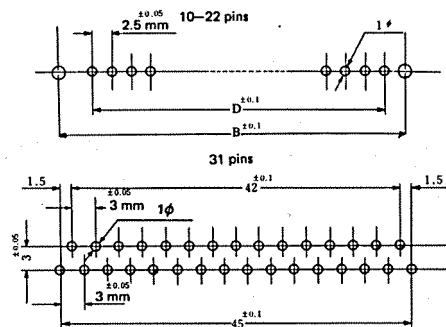
Use: PCN6B series Plug with straight dip soldering and with soldering eyelet in combination with any type of socket.

PCN6 LOCK (D)



Use: Plug with right angle dip soldering in combination with any type of socket.

Recommended Mounting Hole Pattern



No. of pin Size	5	10	15	20	22
B	25 (.984)	37.5 (1.476)	50 (1.969)	62.5 (2.461)	67.5 (2.657)
D	10 (.394)	22.5 (.886)	35 (1.378)	47.5 (1.870)	52.5 (2.067)

Reference Data

