

Engineer Drawing

SPECIFICATIONS:

1. Poles: 2~24
2. Applicable: AWG #24~#16
3. Voltage Rating: 300V DC/AC
4. Current Rating: 9.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: $\geq 1000\text{M}\Omega$ (Min)
8. Contact Resistance: $\leq 20\text{M}\Omega$ (Max)
9. Material: Nylon UL 94V-2(0)/Brass

IPCW 420 W XX X X XX X

- | | | | | | | | |
|---------------|-----------------|------------------|-------------------------|-----------------|---------------|---------------|--------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
| ① Series Type | ② Pitch: 4.20mm | ③ Connector Type | ④ Pin Code: See Table 1 | ⑤ Material Code | ⑥ Colour Code | ⑦ Serial Code | ⑧ Other Code |

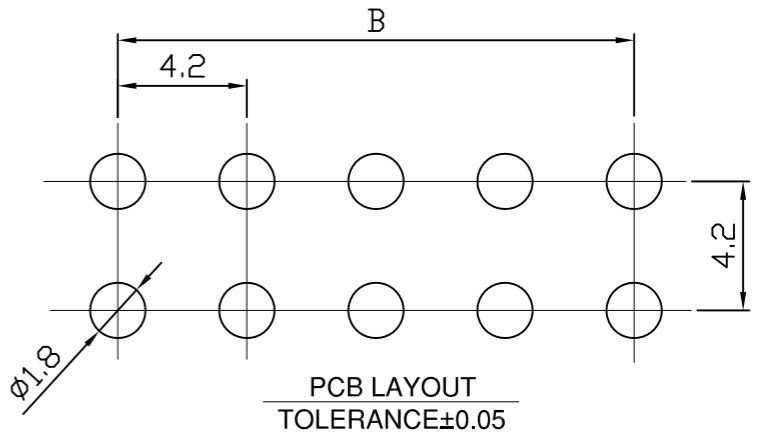
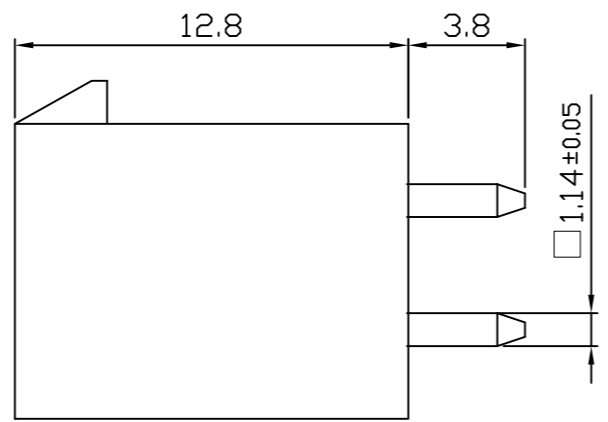
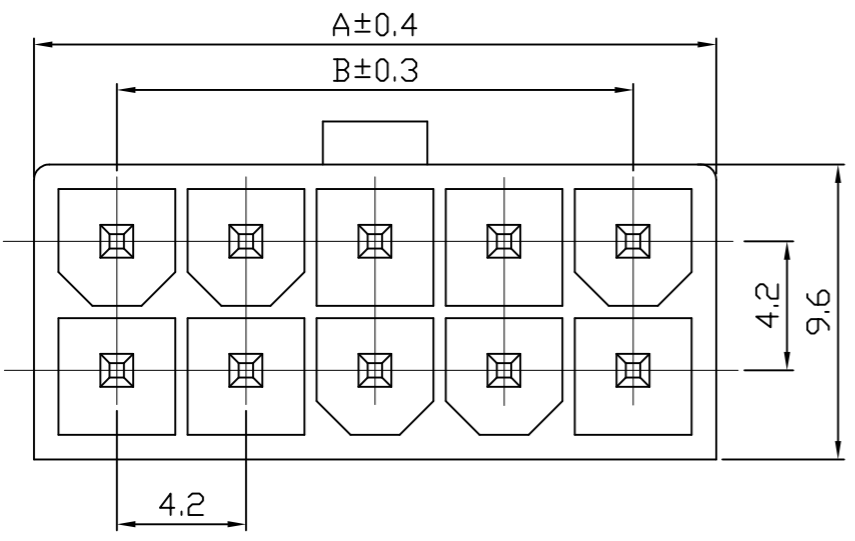


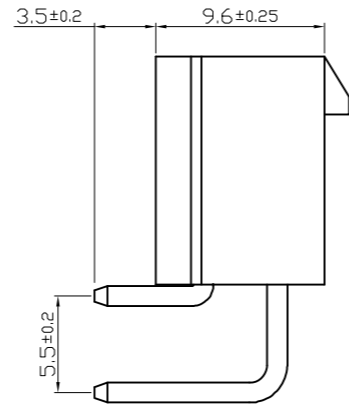
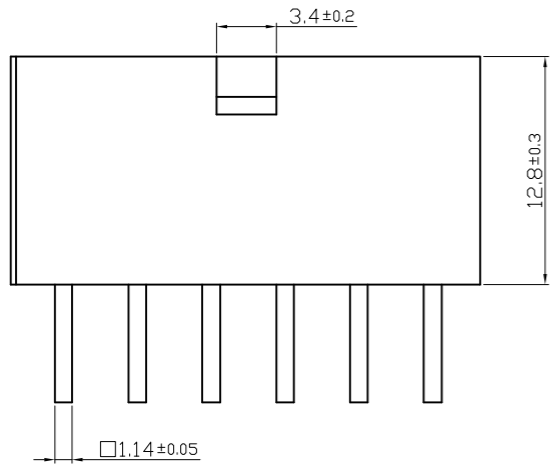
Table 1

Pin Code	Circuits	Dimensions(mm)	
		A	B
22	4	5.4	/
24	8	9.6	4.2
26	12	13.8	8.4
28	16	18.0	12.6
2A	20	22.2	16.8
2C	24	26.6	21.0
2E	28	30.6	25.2
2G	32	34.8	29.4
2J	36	39.0	33.6
2L	40	43.2	37.8
2N	44	47.4	42.0
2Q	48	51.6	46.2

TOLERANCES: X. = ± 0.40 X.X = ± 0.30 X.XX = ± 0.20 GENERAL ANGLE X° = $\pm 5^\circ$ X.X° = $\pm 4^\circ$ X.XX° = $\pm 3^\circ$		www.i-ncp.com
	PART NO: IPCW420W xx 0AV	NAME: 4.2mmPH 2xnPin 180° Wire to Board
	DRAWING NO IPCW420W0AV	
	SHEET 1 OF 1	

1	2	3	4	5	6	7	8	9
G	Engineer Drawing							G
F								F
E								E
D								D
C								C
B								B
A								A
1	2	3	4	5	6	7	8	9

Engineer Drawing



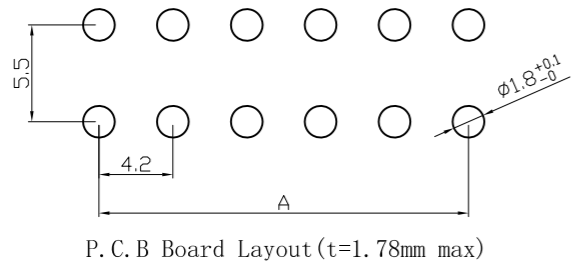
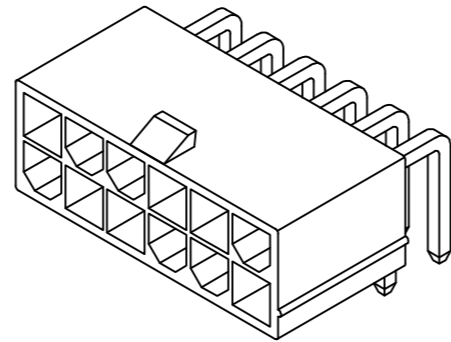
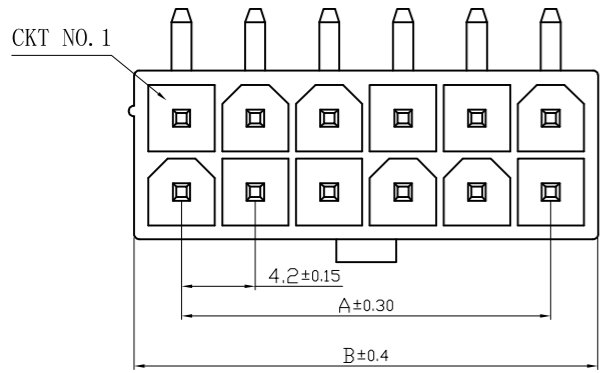
SPECIFICATIONS:

1. Poles: 2~24
2. Applicable: AWG #24~#16
3. Withstand Voltage: 1500V AC
4. Working Temperature: -25°C ~ +85°C
5. Insulation Resistance: ≥ 1000MΩ (Min)
6. Material: Nylon UL 94V-0(2)/Brass: 1.14mm

IPCW 420 W XX X X XX X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- | | |
|-------------------------|-----------------|
| ① Series Type | ⑤ Material Code |
| ② Pitch: 4.20mm | ⑥ Colour Code |
| ③ Connector Type | ⑦ Serial Code |
| ④ Pin Code: See Table 1 | ⑧ Other Code |



P.C.B Board Layout (t=1.78mm max)

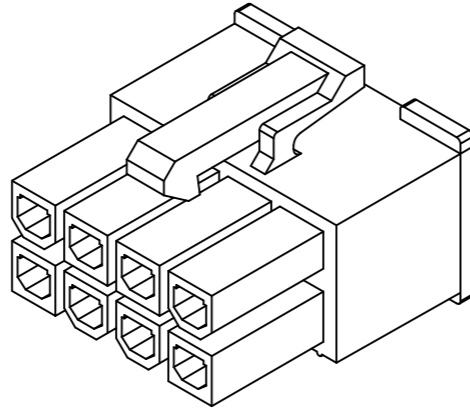
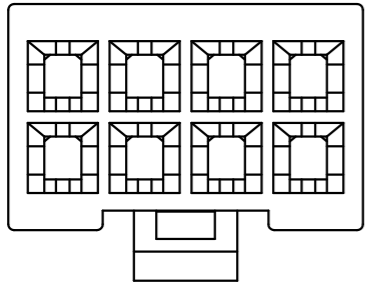
Table 1

Pin Code	Circuits	Dimensions(mm)		Pin Code	Circuits	Dimensions(mm)	
		A	B			A	B
22	4	/	5.40	2E	28	25.2	30.6
24	8	4.20	9.60	2G	32	29.4	34.8
26	12	8.40	13.8	2J	36	33.6	39.0
28	16	12.6	18.0	2L	40	37.8	43.2
2A	20	16.8	22.2	2N	44	42.0	47.4
2C	24	21.0	26.4	2Q	48	46.2	51.6

TOLERANCES:
 X: ±0.40
 X.X: ±0.3
 X.XX: ±0.20
 GENERAL ANGLE
 X°: ±5°
 X.X°: ±4°
 X.XX°: ±3°

	www.i-ncp.com
PART NO: IPCW420W xx 0AR	NAME: 4.2mmPH 2xnPin 90° Wire to Board
DRAWING NO IPCW420W0AR	
SHEET 1 OF 1	UNITS:mm SCALE:1:1 REV:01

Engineer Drawing



SPECIFICATIONS:

1. Poles: 2~24
2. Applicable: AWG #24~#16
3. Voltage Rating: 300V DC/AC
4. Current Rating: 9.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: ≥ 1000MΩ (Min)
8. Contact Resistance: ≤ 20MΩ (Max)
9. Material: Nylon UL 94V-0

IPCW 420 H XX X X XX X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- | | |
|-------------------------|-----------------|
| ① Series Type | ⑤ Material Code |
| ② Pitch: 4.20mm | ⑥ Colour Code |
| ③ Connector Type | ⑦ Serial Code |
| ④ Pin Code: See Table 1 | ⑧ Other Code |

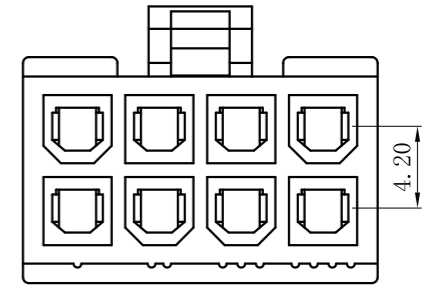
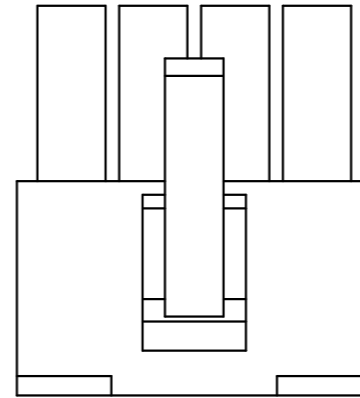
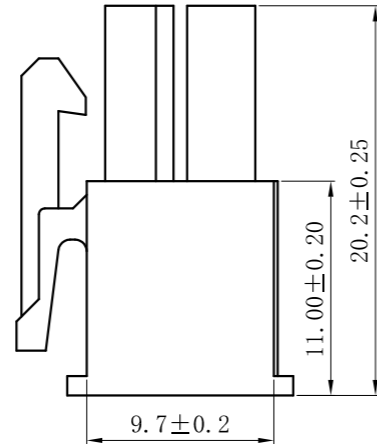
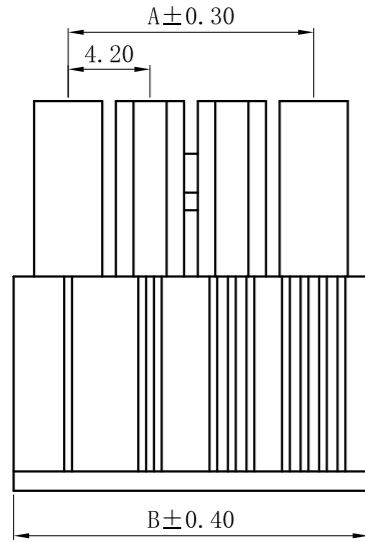


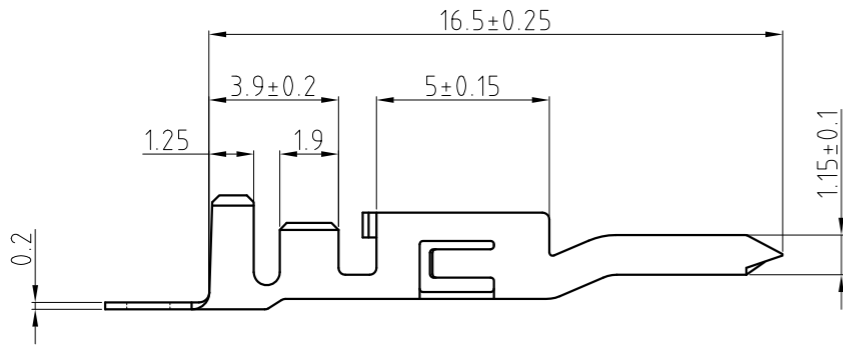
Table 1

Pin Code	Circuits	Dimensions(mm)		Pin Code	Circuits	Dimensions(mm)	
		A	B			A	B
22	4	/	5.60	2E	28	25.2	30.8
24	8	4.20	9.80	2G	32	29.4	35.0
26	12	8.40	14.0	2J	36	33.6	39.2
28	16	12.6	18.2	2L	40	37.8	43.4
2A	20	16.8	22.4	2N	44	42.0	47.6
2C	24	21.0	26.6	2Q	48	46.2	51.8

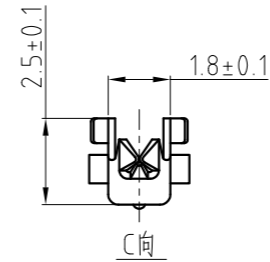
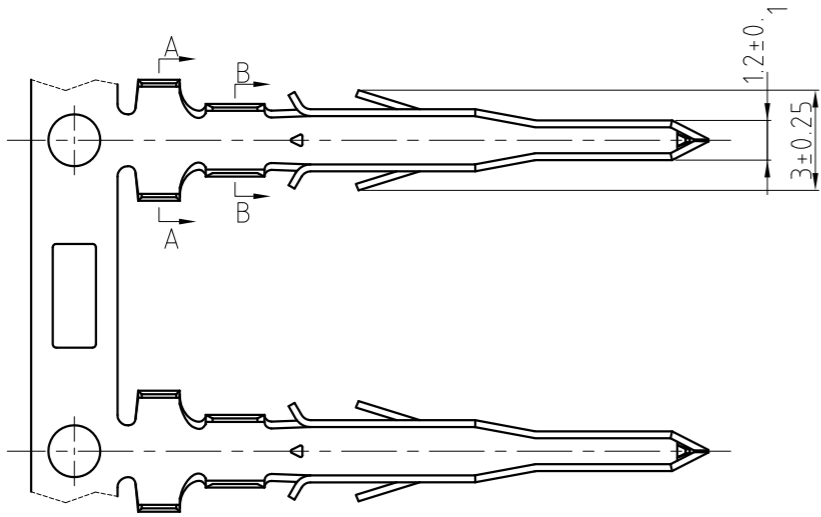
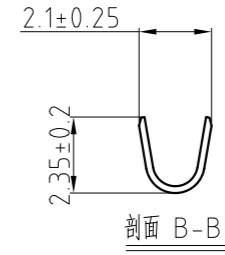
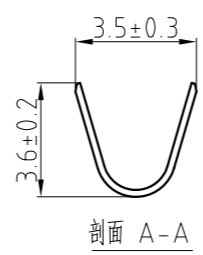
TOLERANCES:
 X.=±0.35
 X.X=±0.25
 X.XX=±0.15
 GENERAL ANGLE
 X°=±2°
 X.X°=±1°
 X.XX°=±0.5°

	www.i-ncp.com
PART NO: IPCW420H xx 1AV	NAME: 4.2mm PH 2xnPin Connector Housings Male
DRAWING NO IPCW420H1AV	UNITS:mm SCALE:1:1 REV.01
SHEET 1 OF 1	

Engineer Drawing



C向



SPECIFICATIONS:

1. Applicable: AWG #16~#20
2. Voltage Rating: 250V AC/DC
3. Current Rating: 9.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: ≥1000MΩ(Min)
8. Contact Resistance: ≤0.02 Ω(Max)
9. Material: Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating: Tin-Plated

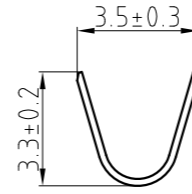
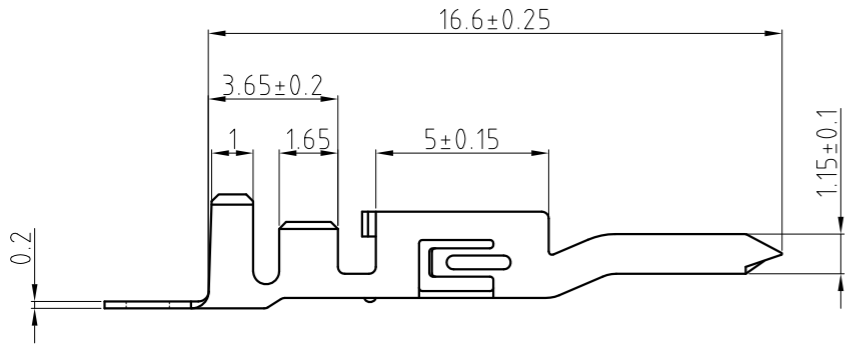
IPCW 420 T 01 X X X X X

- | | |
|------------------|-----------------------------------|
| ① Series Type | ⑤ Material Code |
| ② Pitch: 4.20mm | ⑥ Other Code |
| ③ Connector Type | ⑦ Terminal Typ: M: Male F: Female |
| ④ Serial Code | ⑧ Other Code |
| | ⑨ Plating: T= Tin |

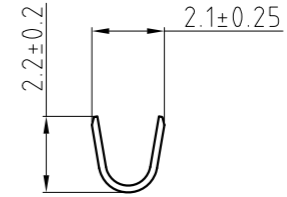
TOLERANCES:
 <10:±0.20
 10~30:±0.25
 >10:±0.45
 GENERAL ANGLE
 X°=±3°
 X.X°=±0.5°

	www.i-ncp.com
PART NO: IPCW420T01 xx M	NAME: 4.2mmPH Crimp Terminal Male AWG #16~#20
DRAWING NO IPCW420T01MA	
SHEET 1 OF 1	UNITS:mm SCALE:1:1 REV.01

Engineer Drawing

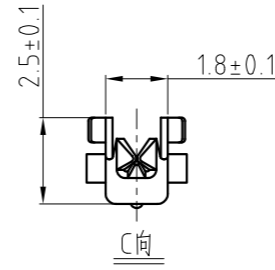
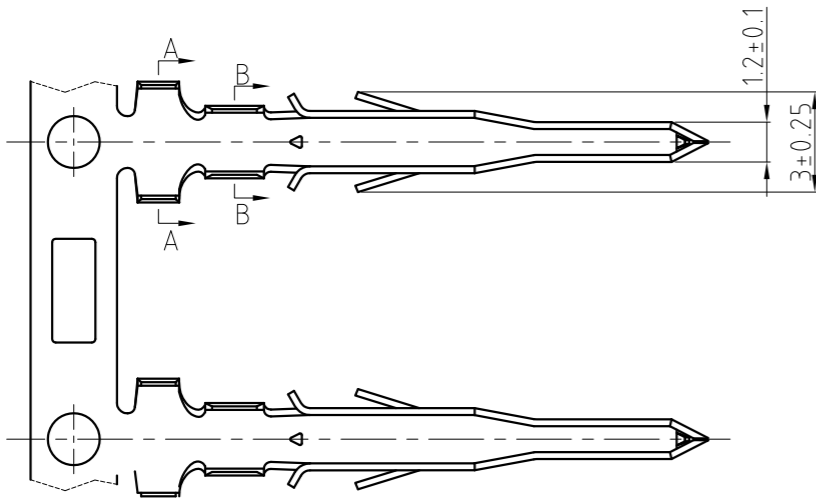


剖面 A-A



剖面 B-B

C向



C向

SPECIFICATIONS:

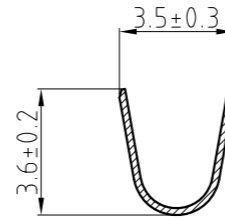
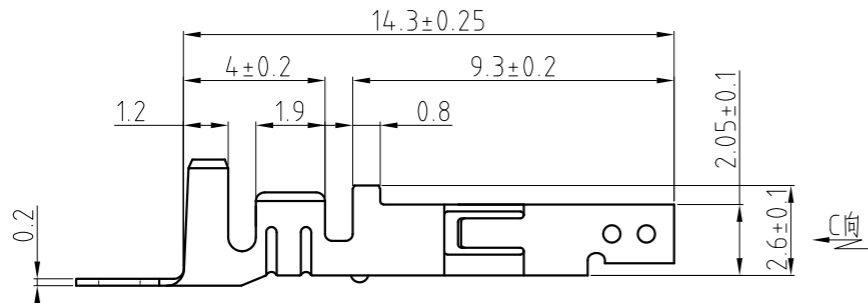
1. Applicable: AWG #18~#24
2. Voltage Rating: 250V AC/DC
3. Current Rating: 5.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: ≥ 1000MΩ (Min)
8. Contact Resistance: ≤ 0.02 Ω (Max)
9. Material: Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating: Tin-Plated

IPCW 420 T 02 X X X X X

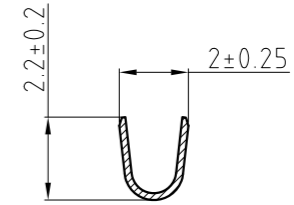
- | | |
|------------------|-----------------------------------|
| ① Series Type | ⑤ Material Code |
| ② Pitch: 4.20mm | ⑥ Other Code |
| ③ Connector Type | ⑦ Terminal Typ: M: Male F: Female |
| ④ Serial Code | ⑧ Other Code |
| | ⑨ Plating: T= Tin |

TOLERANCES: <10:±0.20 10~30:±0.25 >10:±0.45 GENERAL ANGLE X°=±3° X.X°=±0.5°		www.i-ncp.com	
	PART NO: IPCW420T02 xx M	NAME: 4.2mmPH Crimp Terminal Male AWG #18~#24	
	DRAWING NO IPCW420T02MA		
	SHEET 1 OF 1	UNITS:mm SCALE:1:1 REV.01	

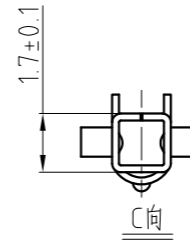
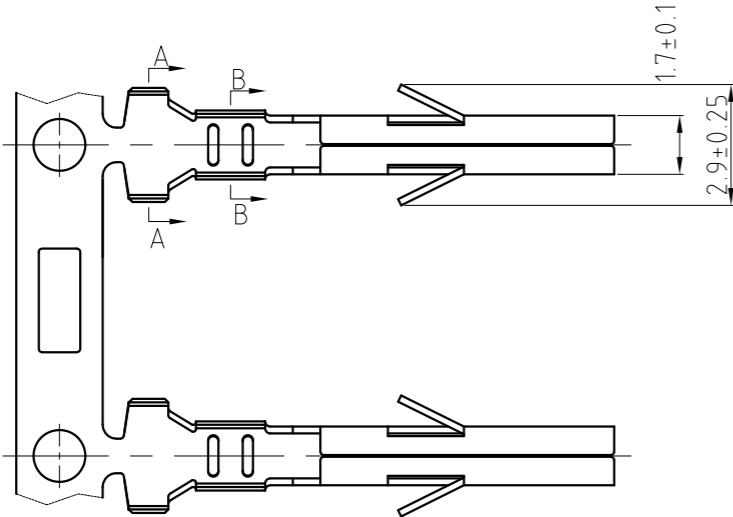
Engineer Drawing



剖面 A-A



剖面 B-B



SPECIFICATIONS:

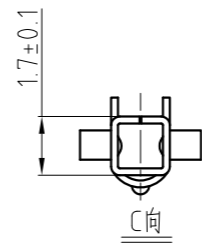
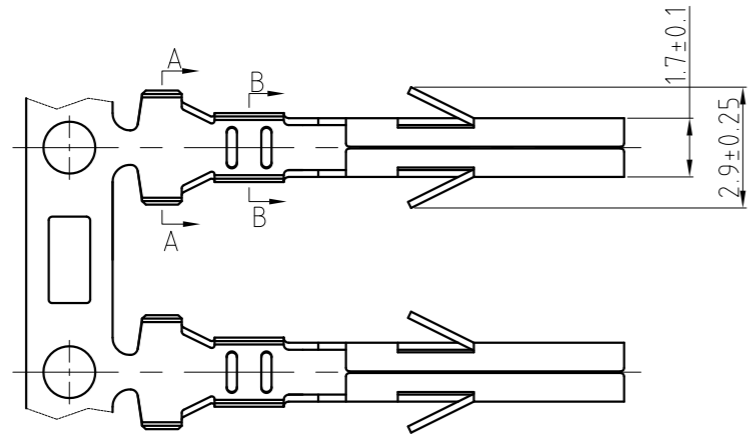
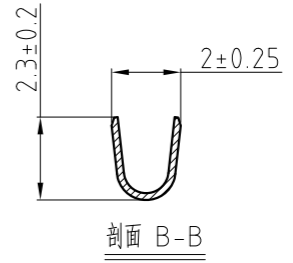
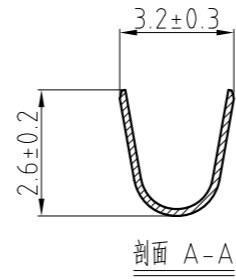
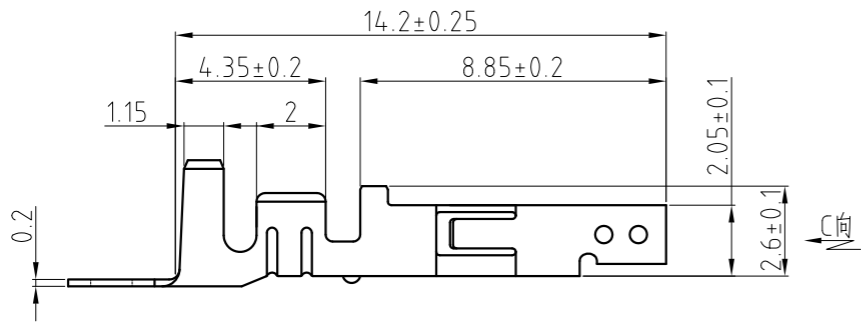
1. Applicable: AWG #16~#20
2. Voltage Rating: 250V AC/DC
3. Current Rating: 9.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: ≥1000MΩ(Min)
8. Contact Resistance: ≤0.02 Ω(Max)
9. Material: Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating: Tin-Plated

IPCW 420 T 01 X X X X X

- | | | | | | | | | |
|---------------|-----------------|------------------|---------------|-----------------|--------------|-----------------------------------|--------------|-------------------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ |
| ① Series Type | ② Pitch: 4.20mm | ③ Connector Type | ④ Serial Code | ⑤ Material Code | ⑥ Other Code | ⑦ Terminal Typ: M: Male F: Female | ⑧ Other Code | ⑨ Plating: T= Tin |

TOLERANCES: <10:±0.20 10~30:±0.25 >10:±0.45 GENERAL ANGLE X°=±3° X.X°=±0.5°	NCP	www.i-ncp.com
	PART NO: IPCW420T01 xx F	NAME: 4.2mmPH Crimp Terminal Female AWG #16~#20
	DRAWING NO IPCW420T01FA	
	SHEET 1 OF 1 UNITS:mm SCALE:1:1 REV.01	

Engineer Drawing



SPECIFICATIONS:

1. Applicable: AWG #18~#24
2. Voltage Rating: 250V AC/DC
3. Current Rating: 5.0A
5. Withstand Voltage: 1500V AC
6. Working Temperature: -25°C ~ +85°C
7. Insulation Resistance: ≥ 1000MΩ (Min)
8. Contact Resistance: ≤ 0.02 Ω (Max)
9. Material: Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating: Tin-Plated

IPCW 420 T 02 X X X X X

- | | |
|------------------|-----------------------------------|
| ① Series Type | ⑤ Material Code |
| ② Pitch: 4.20mm | ⑥ Other Code |
| ③ Connector Type | ⑦ Terminal Typ: M: Male F: Female |
| ④ Serial Code | ⑧ Other Code |
| | ⑨ Plating: T= Tin |

TOLERANCES: <10:±0.20 10~30:±0.25 >10:±0.45 GENERAL ANGLE X°=±3° X.X°=±0.5°	NCP	www.i-ncp.com
	PART NO: IPCW420T02 xx F	NAME: 4.2mmPH Crimp Terminal Female AWG #18~#24
	DRAWING NO IPCW420T02FA	
	SHEET 1 OF 1	UNITS:mm SCALE:1:1 REV:01

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