

Board to Board Connector chart

Board to Board Mating chart

1.27mm(.050") Pitch Connectors

Figure	Figure		-	-																
	Series	Height	CA01	CB50																
			13.0	2.2																
Q	CH50	Dim.C																		
F	CH51	1.0																		

Please review table above for connector style and mating parts.

2.00mm(.079") Pitch Connectors

Figure	Figure		-	A	F	M	-												
	Series	Height	CA11	CB22	CB74	CB78	CI03												
			8.4	4.7	4.5	-	7.0												
A/B	CH11	2.0																	
E	CH21	Dim.E																	
F/G	CH71	2.0																	
N/P	CH72	4.0																	
Q/R	CH74	1.6																	
J	CH75	Dim.E																	

2.54mm(.100") Pitch Connectors

Figure	Figure		-	E	A	A/B	F	J	F	F	F/G	K/L	Q	M					
	Series	Height	CA21	CB33	CB37	CB39	CB82	CB83	CB85	CB87	CB91	CB94	CB96	CB97					
			10.5	5.0	6.8	8.4	4.5	5.0	5.5	6.6	8.4	8.5	Dim.C	-					
-	CA26	-																	
-	CA27	-																	
A/B	CH31	2.54																	
E	CH34	Dim.E																	
		2.54																	
H	CH82	Dim.D																	
N/P	CH84	7.4																	
J	CH85	Dim.E																	
Q/R	CH87	2.6																	
Q/R	CH88	-																	

Figure	Figure		P																
	Series	Height	CB98																
			8.5																
T/U	CH96	2.54																	

Please review table above for connector style and mating parts.

Introduction

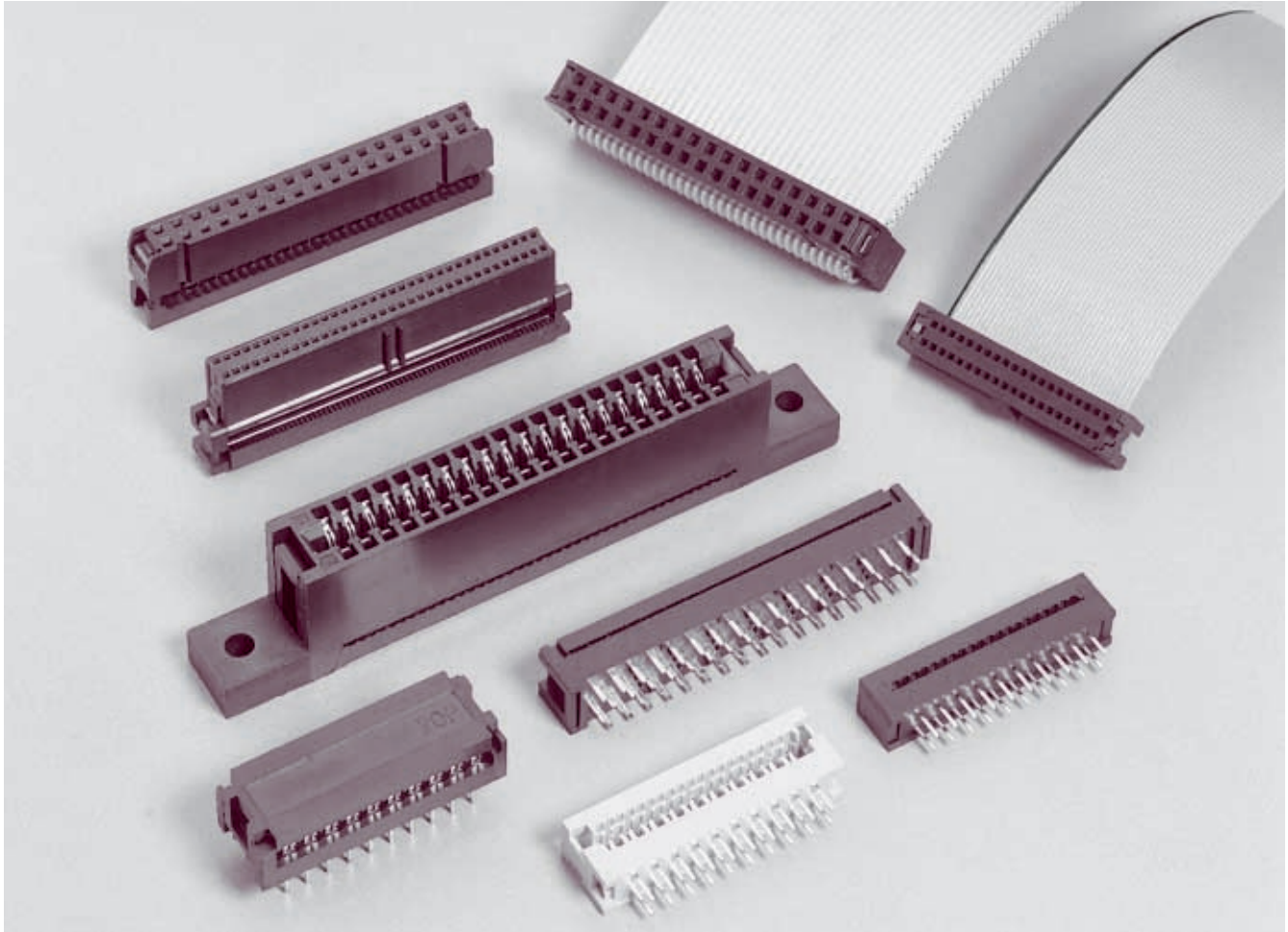
The system CA IDC connectors includes connector for 0.635mm(.025"), 1.00mm(.039") and standard 1.27mm (.050") flat ribbon cables. CviLux offers wide ranges of connector to meet market demand today. They can mate our system CH latching headers, box headers and breakaway pin headers in various of configurations for wire-to-board connections.

These connectors with either dual beam contact offering enhanced security in high vibration assembly operations, and a lower cost single contact beam product, offering all the performance advantages of its dual beam counterparts. All families are easy to assembly with above mentioned ribbon cable.

Contacts of connector come in a choice of plating styles, They can provide all the options necessary to meet low cost but high reliability requirement, Molded polarizing ribs will insure correct connection while mate pin headers on the board.

This connector's system is common using in Computers, Peripherals, Modems, Test Equipment, Medical, Instrumentation, Control Devices and any other commercial applications that need ultra high density wire-to-board interconnects.

For special requirement excluding in this catalogue, please consult our sales agent or factory for information.



System CA - Technical Specifications

TEST METHODS FOR ELECTRONIC CONNECTOR IS ACCORDING TO FOLLOWING MILITARY STANDARD:

Dielectric Withstanding Voltage	- Per MIL-STD-1344A method 3001.1
Contact Resistance	- Per MIL-STD-1344A method 3002.1
Insulation Resistance	- Per MIL-STD-1344A method 3003.1
Solderability	- Per MIL-STD-202F method 208D

1.27mm (.050") Center spacing Flat cable - IDC

Electrical Data-	Construction-
Current rating: 0.5 Amp	Insulator: Black, Glass Filled Polyester as standard
Dielectric Withstanding Voltage: 500 VAC for one minute	Flammability Rating: UL 94V-0
Contact Resistance: < 30 mΩ	Contacts: Phosphor Bronze
Insulation Resistance: > 500 MΩ	Contacts plating: Selective gold on surface contact area
Operating Temperature: -40°C - +105°C	Pleass see ordering code plating options.
Wire: 32 AWG	

2.00mm (.079") Center spacing Flat cable - IDC

Electrical Data-	Construction-
Current rating: 1 Amp	Insulator: Black, Glass Filled Polyester as standard
Dielectric Withstanding Voltage: 500 VAC for one minute	Flammability Rating: UL 94V-0
Contact Resistance: < 30 mΩ	Contacts: Phosphor Bronze
Insulation Resistance: > 1000 MΩ	Contacts plating: Selective gold on surface contact area
Operating Temperature: -40°C - +105°C	Pleass see ordering code plating options.
Wire: 28 AWG, 7/36 stranded	

2.54mm (.100") Center spacing Flat cable - IDC

Electrical Data-	Construction-
Current rating: 1 Amp	Insulator: Black, Glass Filled Polyester
Dielectric Withstanding Voltage: 1000 VAC for one minute	Flammability Rating: UL 94V-0
Contact Resistance: < 30 mΩ	Contacts: Phosphor Bronze or Brass
Insulation Resistance: >1000 MΩ	Contacts plating: Selective gold on surface contact area
Operating Temperature: -40°C - +105°C	Pleass see ordering code plating options.
Wire: 28 AWG, 7/36 stranded	

2.54mm (.100") Center spacing Flat cable - IDC Shrouded and Box Header

Electrical Data-	Construction-
Current rating: 1 Amp	Insulator: Gray, Glass Filled Polyester
Dielectric Withstanding Voltage: 1000 VAC for one minute	Flammability Rating: UL 94V-0
Contact Resistance: < 30 mΩ	Contacts: Brass
Insulation Resistance: >1000 MΩ	Contacts plating: Selective gold on surface contact area
Operating Temperature: -40°C - +105°C	Pleass see ordering code plating options.
Wire: 28 AWG, 7/36 stranded	

CA01 Series Flat Cable - IDC Socket

1.27x2.54mm(.050x.100") Center Spacing

- Mate CH50 headers
- Can be used CW01 0.635mm(.025") Center Spacing ribbon cable



Ordering code

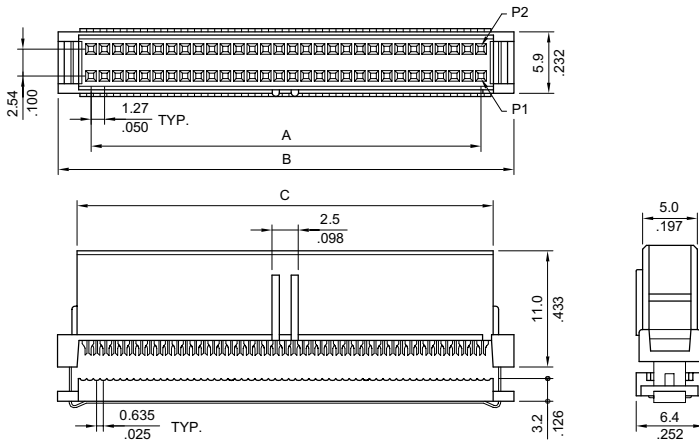
CA0180S A100

1 Series No.
2 Circuits: See drawing
3 Contact type:
 S= Socket

4 Plating code:
 A= Selective Gold flash over Nickel
 B= Selective 15µin Gold plated over Nickel
 C= Selective 30µin Gold plated over Nickel

5 Color: 1= Black

6 Other options:
 00= With Polarizing Rib (Standard)
 A0= Without Polarizing Rib
 *Special option Consult manufacturer



Circuits	Dimension		
	A	B	C
60	36.83(1.450)	43.2(1.701)	39.18(1.543)
68	41.91(1.650)	48.3(1.902)	44.26(1.743)
72	44.45(1.750)	50.8(2.000)	46.8(1.843)
80	49.53(1.950)	55.9(2.201)	51.88(2.043)

CA05 Series Flat Cable - IDC DIP Plug

1.27mm(.050") Center Spacing

- High density and low profile
- Can be used CW01 0.635mm(.025") Center Spacing ribbon cable



Ordering code

CA0580P1100

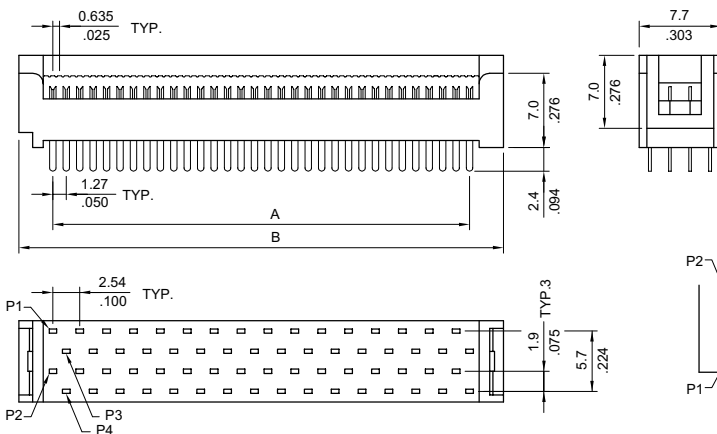
1 Series No.
2 Circuits: See drawing
3 Contact type:
 P= Plug

4 Plating code:
 1= Tin-lead over Nickel

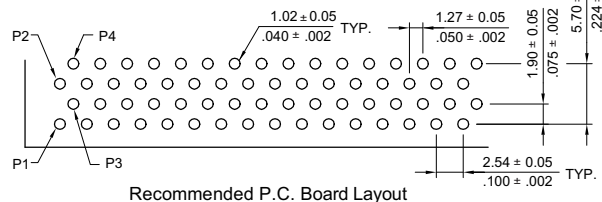
5 Color: 1= Black

6 Other options:
 00= Standard
 *Special option Consult manufacturer

:E159616



Circuits	Dimension	
	A	B
50	30.48(1.200)	36.8(1.449)
60	36.83(1.450)	43.2(1.701)
68	41.91(1.650)	48.3(1.902)
72	44.45(1.750)	50.8(2.000)
80	49.53(62.90)	55.9(2.201)



CA11 Series Flat Cable - IDC Socket

2.00mm(.079") Center Spacing

- Mate CH71, CH72 and CH74 headers
- Can be used CW02 1.00mm(.039") Center Spacing ribbon cable



:E159616

Ordering code

1 **2** **3** **4** **5** **6**

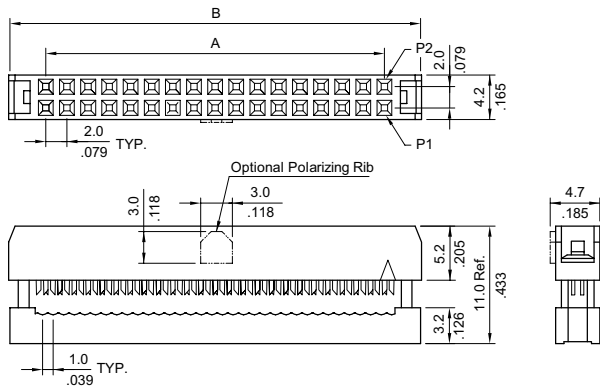
CA11 68 S A 1 00

1 Series No.
2 Circuits: See drawing
3 Contact type:
 S= Receptacle

4 Plating code:
 A= Selective Gold flash over Nickel
 B= Selective 15µin Gold plated over Nickel
 C= Selective 30µin Gold plated over Nickel

5 Color: 1= Black

6 Other options:
 00= With Polarizing Rib (Standard)
 A0= Without Polarizing Rib
 *Special option Consult manufacturer



Circuits	Dimension		Circuits	Dimension	
	A	B		A	B
8	6.0(.236)	13.2(.520)	30	28.0(1.102)	35.2(1.386)
10	8.0(.315)	15.2(.598)	32	30.0(1.181)	37.2(1.465)
12	10.0(.394)	17.2(.677)	34	32.0(1.260)	39.2(1.543)
14	12.0(.472)	19.2(.756)	36	34.0(1.339)	41.2(1.622)
16	14.0(.551)	21.2(.835)	40	38.0(1.496)	45.2(1.780)
20	18.0(.709)	25.2(.992)	44	42.0(1.654)	49.2(1.937)
22	20.0(.787)	27.2(1.071)	50	48.0(1.890)	55.2(2.173)
24	22.0(.866)	29.2(1.150)	60	58.0(2.283)	65.2(2.467)
26	24.0(.945)	31.2(1.228)	68	66.0(2.598)	73.2(2.882)

CA23 Series Flat Cable - IDC DIP Plug

2.54mm(.100") Center Spacing

- Can be used CW03 1.27mm(.050") Center Spacing ribbon cable



Ordering code

1 **2** **3** **4** **5** **6**

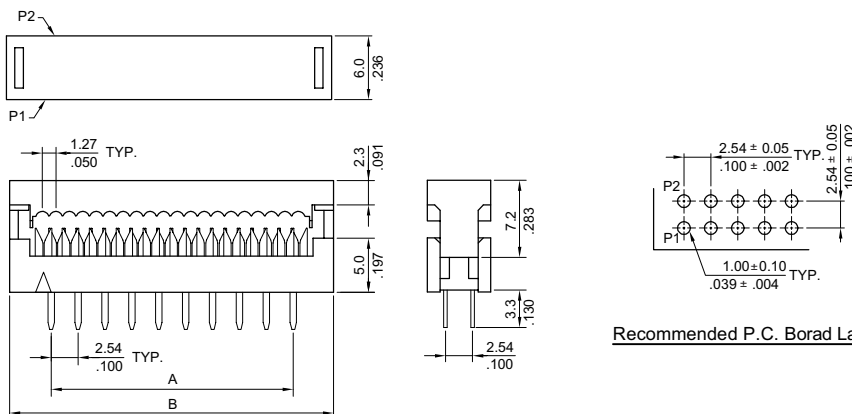
CA23 64 P A 1 00

1 Series No.
2 Circuits: See drawing
3 Contact type:
 P= Plug

4 Plating code:
 A= Selective Gold flash over Nickel
 B= Selective 15µin Gold plated over Nickel
 C= Selective 30µin Gold plated over Nickel

5 Color: 1= Black

6 Other options:
 00= Standard
 *Special option Consult manufacturer



Recommended P.C. Board Layout

Circuits	Dimension	
	A	B
8	7.62(.300)	15.5(.610)
10	10.16(.400)	18.0(.709)
14	15.24(.600)	23.1(.909)
16	17.78(.700)	25.6(1.008)
20	22.86(.900)	30.7(1.209)
24	27.94(1.100)	35.8(1.409)
26	30.48(1.200)	38.3(1.508)
30	35.56(1.400)	43.4(1.709)
34	40.64(1.600)	48.5(1.909)
40	48.26(1.900)	56.1(2.209)
50	60.96(2.400)	68.8(2.709)
60	73.66(2.900)	81.5(3.209)
64	78.74(3.100)	86.6(3.409)

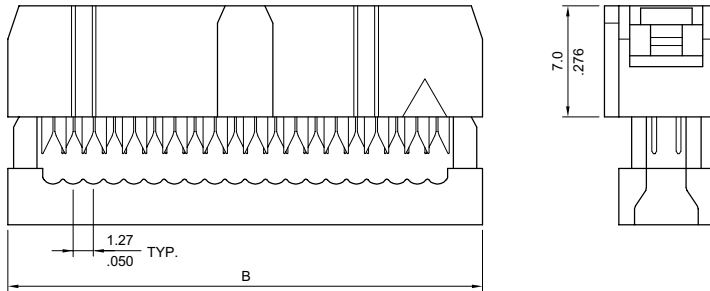
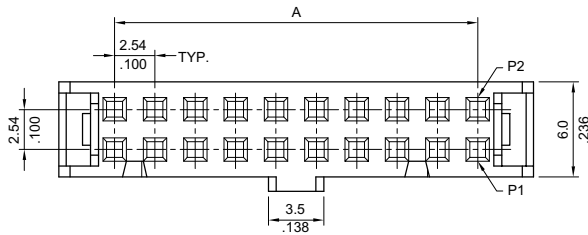
CA21 Series Flat Cable - IDC Socket

2.54mm (.100") Center Spacing

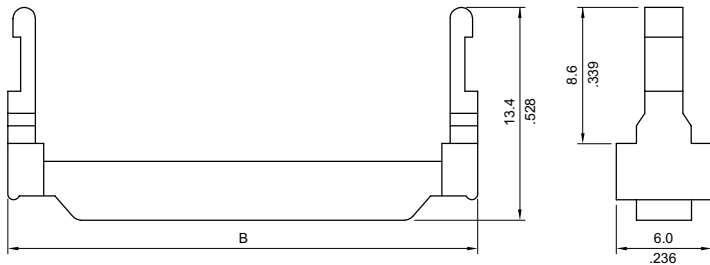
- ⊙ Mate CA26, CA27, CH81, CH82, CH84, CH87 and CH88 headers
- ⊙ Can be used CW03 1.27mm(.050") Center Spacing ribbon cable



:E159616



Circuits	Dimension	
	A	B
6	5.08(.200)	12.2(.480)
8	7.62(.300)	14.7(.579)
10	10.16(.400)	17.3(.681)
12	12.70(.500)	19.8(.780)
14	15.24(.600)	22.3(.878)
16	17.78(.700)	24.9(.980)
20	22.86(.900)	30.0(1.181)
24	27.94(1.100)	35.0(1.378)
26	30.48(1.200)	37.6(1.480)
30	35.56(1.400)	42.7(1.681)
34	40.64(1.600)	47.7(1.878)
40	48.26(1.900)	55.4(2.181)
44	53.34(2.100)	60.4(2.378)
50	60.96(2.400)	68.1(2.681)
56	68.58(2.700)	75.7(2.980)
60	73.66(2.900)	80.8(3.181)
62	76.20(3.000)	83.3(3.280)
64	78.74(3.100)	85.8(3.378)



Strain Relief

Ordering Code

① CA ② 21 ③ S ④ A ⑤ 1 ⑥ 00

- ① Series No.
- ② Circuits: See drawing
- ③ Contact type: S= Socket
- ④ Plating code:
A= Selective Gold flash over Nickel
B= Selective 15µin Gold plated over Nickel
C= Selective 30µin Gold plated over Nickel
- ⑤ Color: 1= Black
- ⑥ Other options:
00= With Polarizing Rib (Standard)
A0= Without Polarizing Rib
*Special option Consult manufacturer

Strain Relief

① CA ② 21 ③ SR ④ 100

- ① Series No.
- ② Contacts: See drawing
- ③ SR= Strain-Relief
- ④ Color: 100= Black

CA26 Series Flat Cable - IDC Shrouded Header

2.54mm(.100") Center Spacing

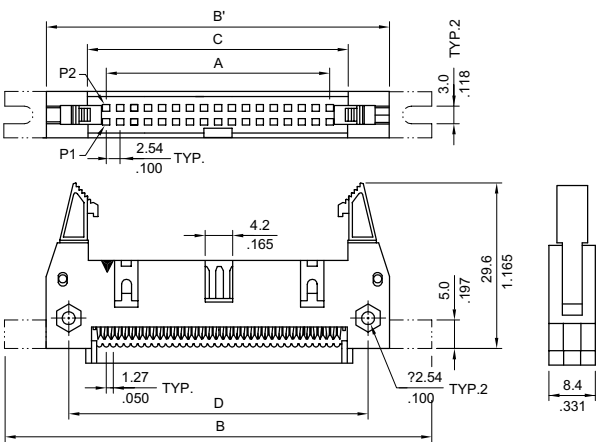
- ⊙ Mate CA21 Series Flat Cable - IDC
- ⊙ Can be used CW03 1.27mm(.050") Center Spacing ribbon cable



Ordering code

① CA 26 ② 64 ③ P ④ A ⑤ 9 ⑥ A0

<p>① Series No.</p> <p>② Circuits: See drawing</p> <p>③ Contact type: P= Plug</p>	<p>④ Plating code: A= Selective Gold flash over Nickel B= Selective 15µin Gold plated over Nickel C= Selective 30µin Gold plated over Nickel</p> <p>⑤ Color: 9= Gray</p>	<p>⑥ Other options: A0= Long latch with mounting ear B0= Short latch with mounting ear C0= Long latch without mounting ear D0= Short latch without mounting ear *Special option Consult manufacturer</p>
---	--	--



Circuits	Dimension				
	A	B	B'	C	D
10	10.16(.400)	47.0(1.850)	32.0(1.260)	18.16(.715)	21.84(.860)
14	15.24(.600)	52.2(2.055)	37.1(1.461)	23.24(.915)	26.92(1.060)
16	17.78(.700)	54.6(2.150)	39.6(1.555)	25.78(1.015)	29.46(1.160)
20	22.86(.900)	59.7(2.350)	44.7(1.760)	30.86(1.215)	34.54(1.360)
26	30.48(1.200)	67.3(2.650)	52.3(2.059)	38.48(1.515)	42.16(1.660)
30	35.56(1.400)	72.4(2.850)	57.5(2.264)	43.56(1.715)	47.24(1.860)
34	40.64(1.600)	77.5(3.051)	62.5(2.461)	48.64(1.915)	52.32(2.060)
40	48.26(1.900)	85.1(3.350)	70.1(2.760)	56.26(2.215)	59.94(2.360)
50	60.96(2.400)	97.8(3.850)	82.8(3.260)	68.96(2.715)	72.64(2.860)
60	73.66(2.900)	110.5(4.350)	95.5(3.760)	81.66(3.215)	85.34(3.360)
64	78.74(3.100)	115.6(4.551)	100.6(3.961)	86.74(3.415)	90.42(3.560)

CA27 Series Flat Cable - IDC Box Headers

2.54mm(.100") Center Spacing

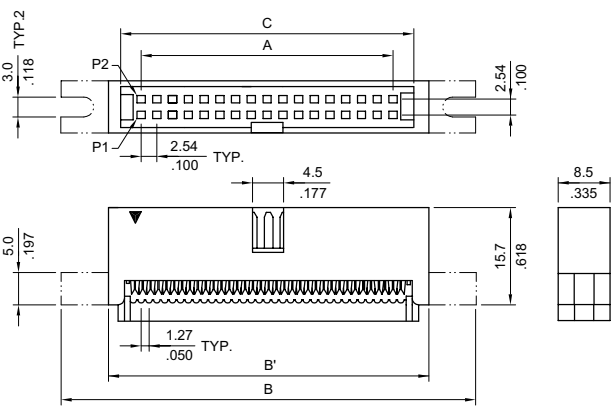
- ⊙ Mate CA21 series flat cable - IDC
- ⊙ Can be used CW03 1.27mm(.050") Center Spacing ribbon cable



Ordering code

① CA 27 ② 64 ③ P ④ A ⑤ 9 ⑥ A0

<p>① Series No.</p> <p>② Circuits: See drawing</p> <p>③ Contact type: P= Plug</p>	<p>④ Plating code: A= Selective Gold flash over Nickel B= Selective 15µin Gold plated over Nickel C= Selective 30µin Gold plated over Nickel</p> <p>⑤ Color: 9= Gray</p>	<p>⑥ Other options: A0= With mounting ear B0= Without mounting ear *Special option Consult manufacturer</p>
---	--	---



Circuits	Dimension			
	A	B	B'	C
10	10.16(.400)	36.5(1.437)	21.1(.831)	18.03(.710)
14	15.24(.600)	41.9(1.650)	26.3(1.035)	23.11(.910)
16	17.78(.700)	44.1(1.736)	28.7(1.130)	25.65(1.010)
20	22.86(.900)	49.2(1.937)	33.8(1.331)	30.73(1.210)
24	27.94(1.100)	54.6(2.150)	39.1(1.539)	35.81(1.410)
26	30.48(1.200)	56.8(2.236)	41.4(1.630)	38.35(1.510)
30	35.56(1.400)	61.9(2.437)	46.5(1.831)	43.43(1.710)
34	40.64(1.600)	67.0(2.638)	51.5(2.028)	48.51(1.910)
40	48.26(1.900)	74.6(2.937)	59.2(2.331)	56.13(2.210)
50	60.96(2.400)	87.3(3.437)	71.9(2.831)	68.83(2.710)
60	73.66(2.900)	100.0(3.937)	84.6(3.331)	81.53(3.210)
64	78.74(3.100)	105.0(4.157)	90.0(3.543)	86.61(3.410)