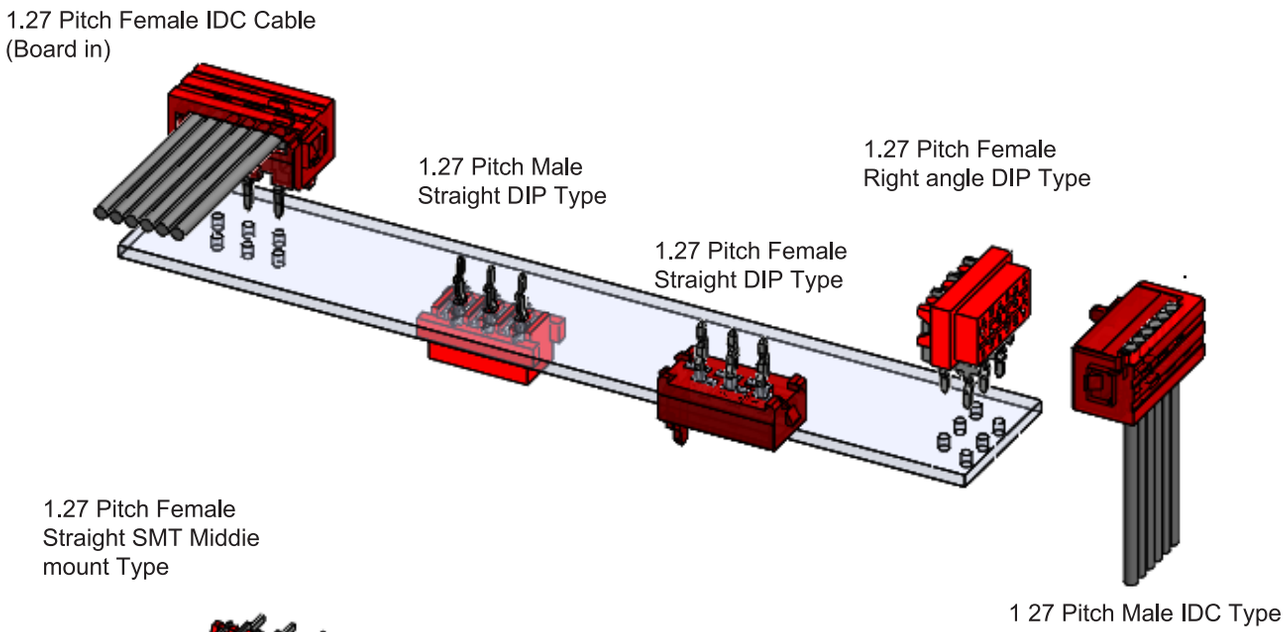
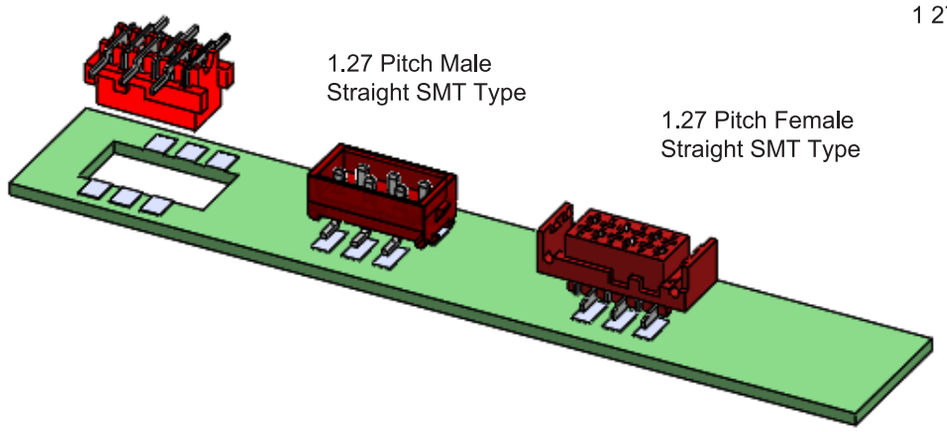
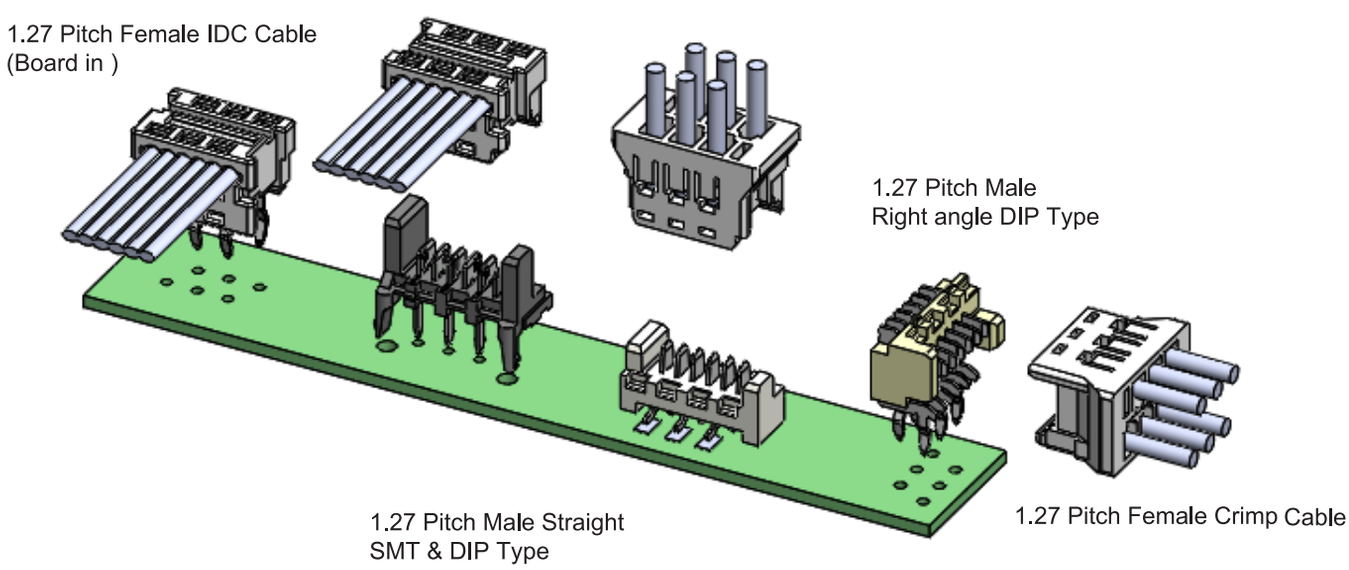
Connection Combination of IDC Connectors





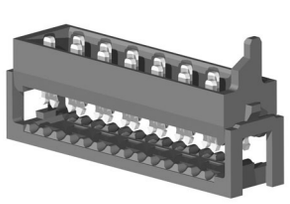
1.27 Pitch Female IDC Cable

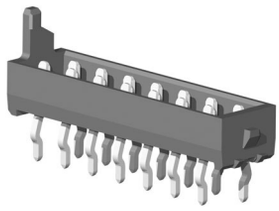


CA30 Series 1.27mm(.050") Male IDC & DIP Type Connectors

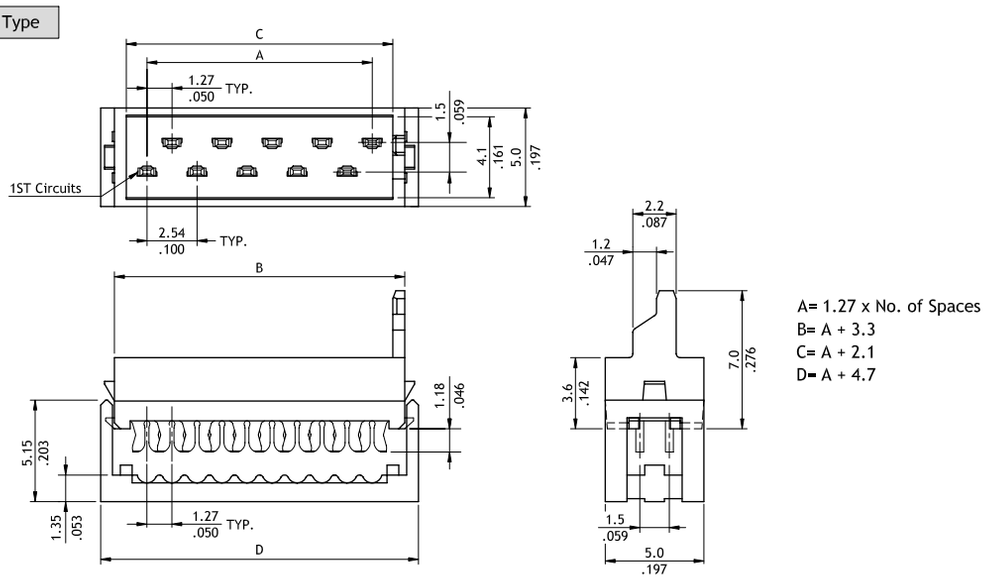
◎ Can be used with CW03 1.27mm(.050") center spacing flat ribbon cable.
◎ Mate with CA32 connector

RoHS Compliant



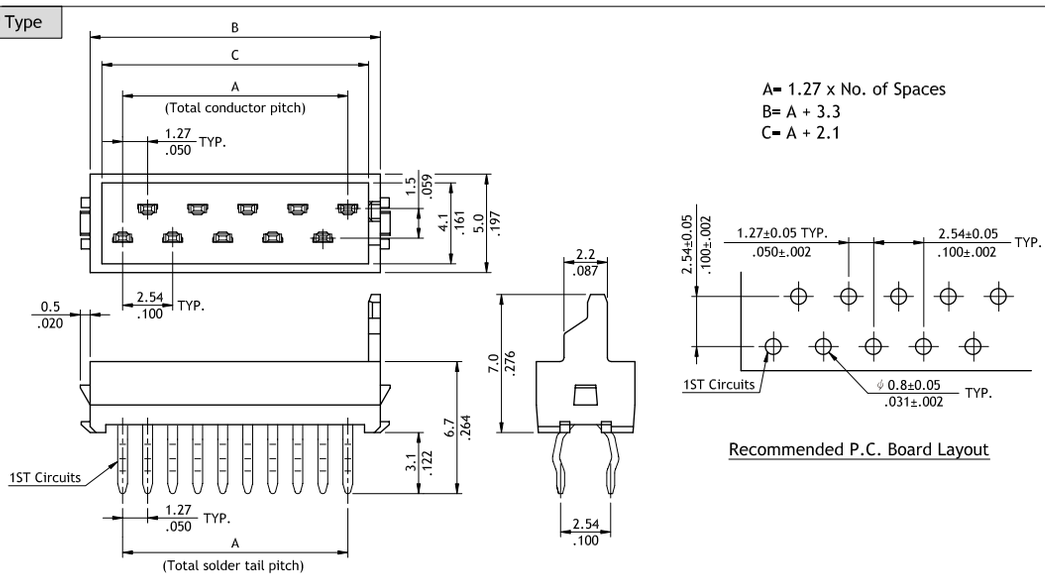


IDC Type



A= 1.27 x No. of Spaces
B= A + 3.3
C= A + 2.1
D= A + 4.7

DIP Type



A= 1.27 x No. of Spaces
B= A + 3.3
C= A + 2.1

Recommended P.C. Board Layout

Ordering Code

①	②	③	④	⑤	⑥	⑦
CA30	26	P	1	3	0	0

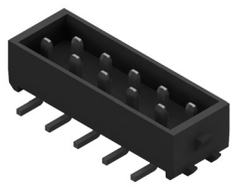
① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type: P = Plug
④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested

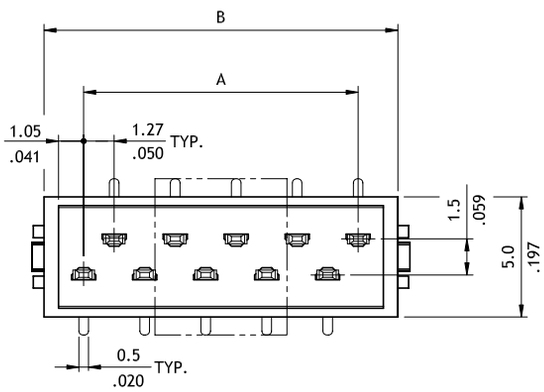
⑤ Color: 3 = Red
⑥ Type: 0 = DIP Type
I = IDC Type
⑦ Other Options:
0 = Standard
*Special options consult manufacturer

CA30 Series 1.27mm(.050") Male SMT Type Connectors

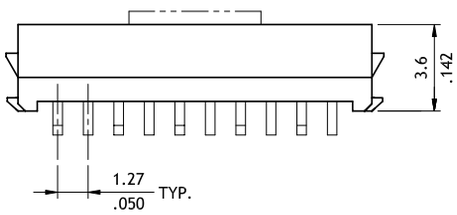
◎ Mate with CA32 connector
◎ High temperature plastic UL 94V-0, color red

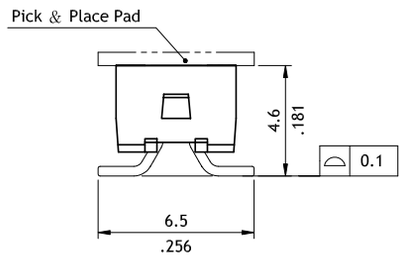
RoHS Compliant

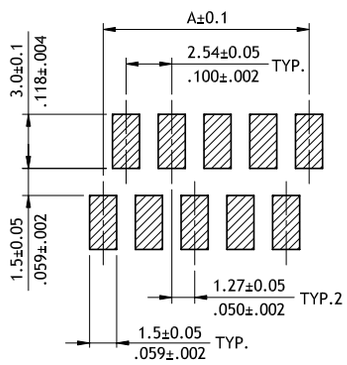




A= 1.27 x No. of Spaces
B= A + 3.3







Solder Pad Pattern

Ordering Code

①	②	③	④	⑤	⑥
CA30	26	M	1	3	R0

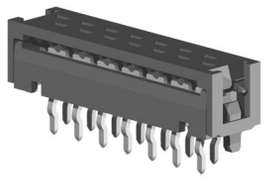
① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type: M = SMT
④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested

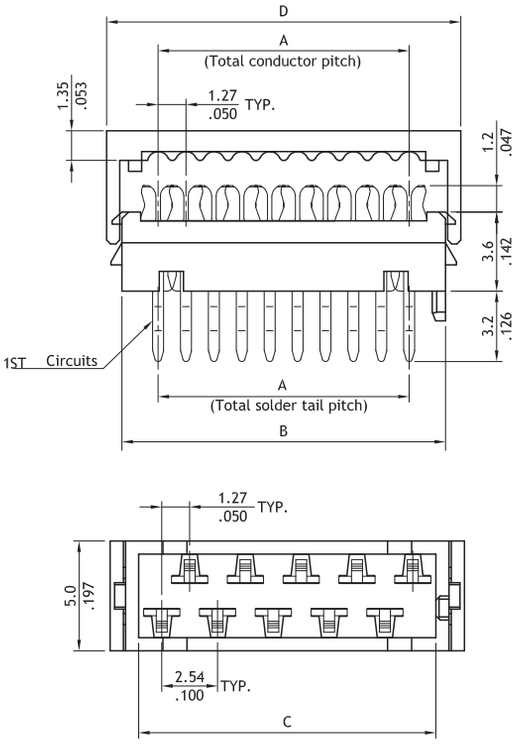
⑤ Color: 3 = Red
⑥ Packing Options:
R0 = With PAD ;Tape & Reel Packing
RN = Without PAD ;Tape & Reel Packing
T0 = Without PAD ;Tube Packing
*Special options consult manufacturer

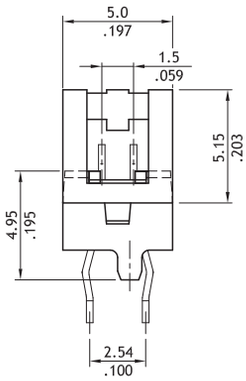
CA31 Series 1.27mm(.050") Flat Cable - IDC DIP Type Connectors

◎ Can be used with CW03 1.27mm(.050") center spacing flat ribbon cable.

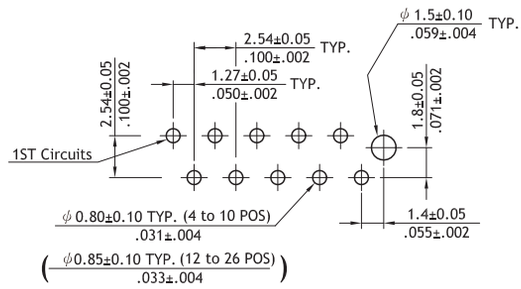
RoHS Compliant







A= 1.27 x No. of Spaces
B= A + 3.3
C= A + 2.1
D= A + 4.7



Recommended PCB Layout

Ordering Code

①	②	③	④	⑤	⑥
CA31	26	P	1	3	00

① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:P=Plug
④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested

⑤ Color: 3 = Red
⑥ Other Options:
00=Standard
*Special options consult manufacturer

CA30 & CA31 Series Flat Cable Assemblies

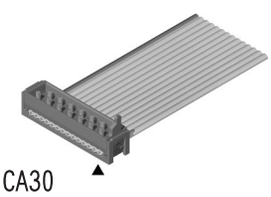
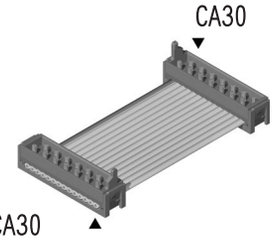
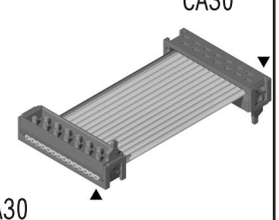
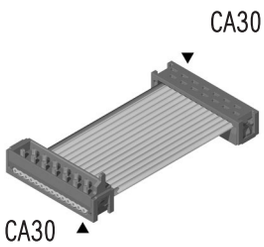
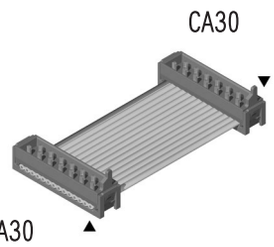
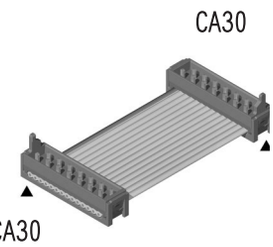
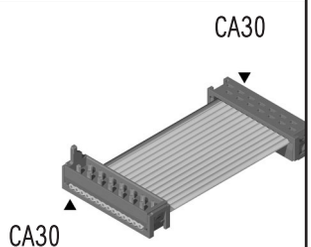
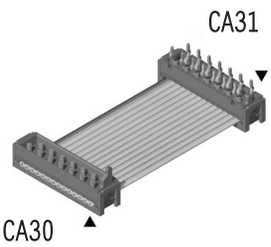
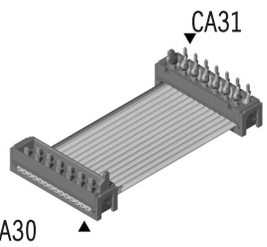
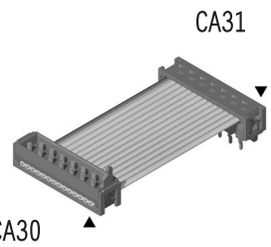
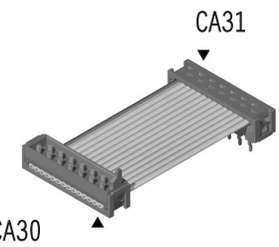
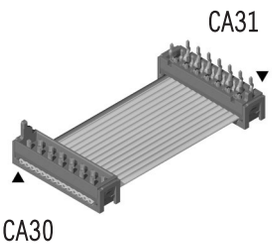
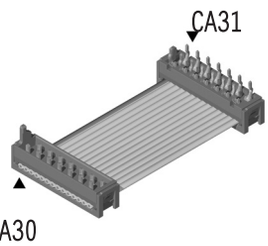
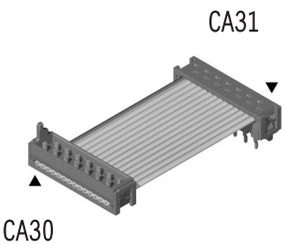
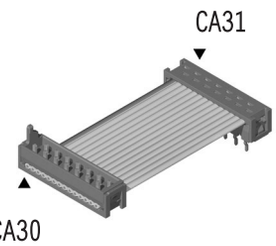
Compact and low profile IDC connector with 1.27mm pitch flat cable assembly combinations.

With full range connectors produced in house, Cvilux is fully equipped to provide cost-effective and high quality flat cble assemblies.

Furthermore, integrated production and assembly process can save your time to market and increase more profit.

Please check below sketch for all kinds of options and advice more details
(length, stripped,red line positions, polarizing direction....etc.) we will follow up your request accordingly.

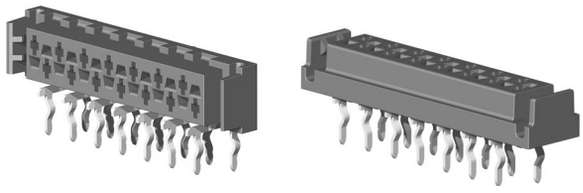
Consult CviLux sales person if customized assembly required.

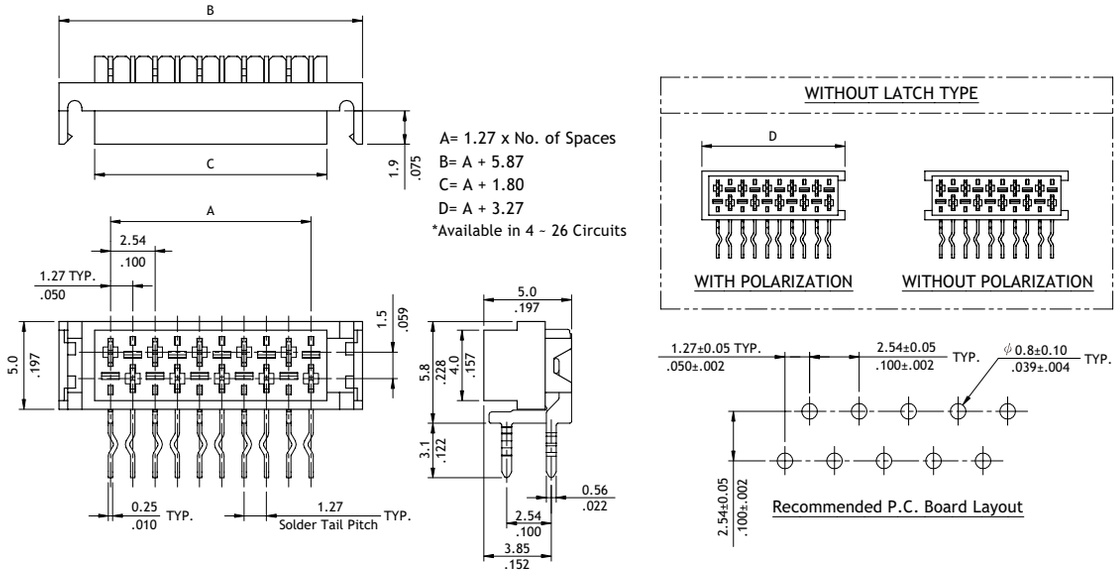
TYPE A	TYPE B	TYPE C	TYPE D
			
TYPE E	**TYPE F**	**TYPE G**	**TYPE H**
			
TYPE J	**TYPE K**	**TYPE M**	**TYPE N**
			
TYPE P	**TYPE Q**	**TYPE R**	**TYPE S**
			

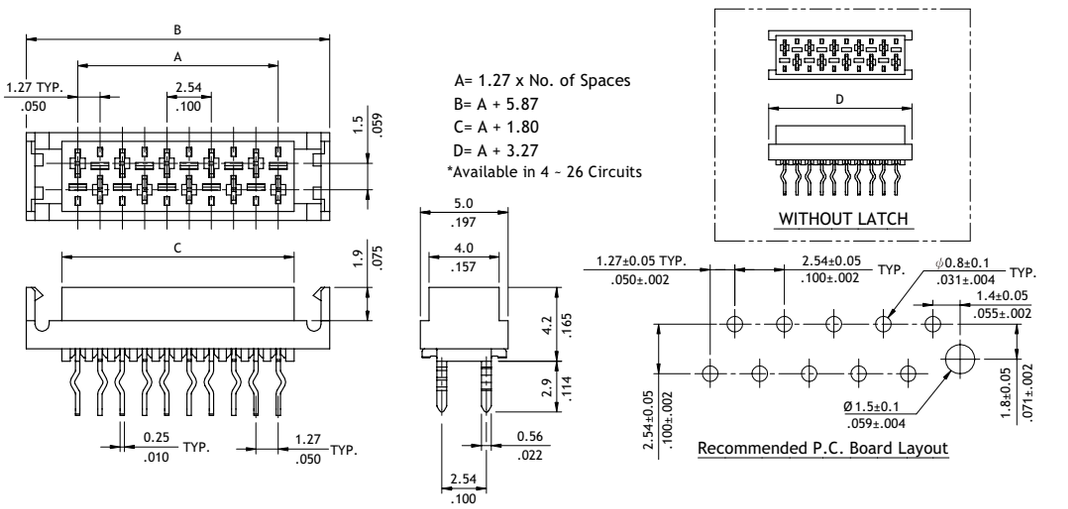
CA32 Series 1.27mm(.050") Female DIP Type Connectors

◎ Mate with CA30 connector

RoHS Compliant







Ordering Code

①	②	③	④	⑤	⑥
CA32	26	H	1	3	00

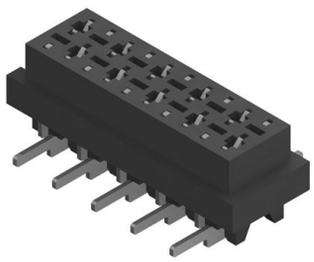
① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type: V = Straight
H = Right Angle
④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested
⑤ Color: 3 = Red

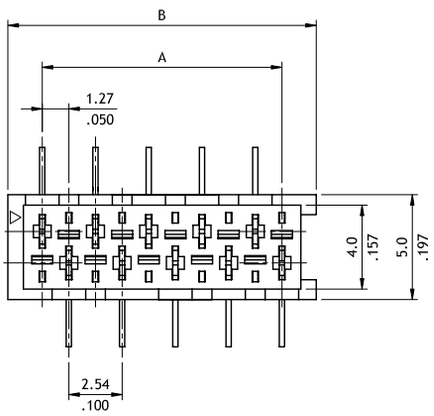
⑥ Right Angle Type:
00 = Without Latch & With Polarization
S0 = Without Latch & Without Polarization
0L = With Latch
Straight Type:
00 = Without Latch
0L = With Latch
*Special options consult manufacturer

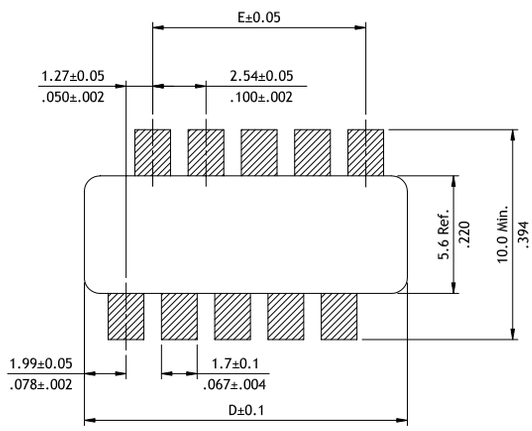
CA32 Series 1.27mm(.050") Female SMT Type Connectors

◎ Mate with CA30 connector
◎ High temperature plastic UL 94V-0, color red

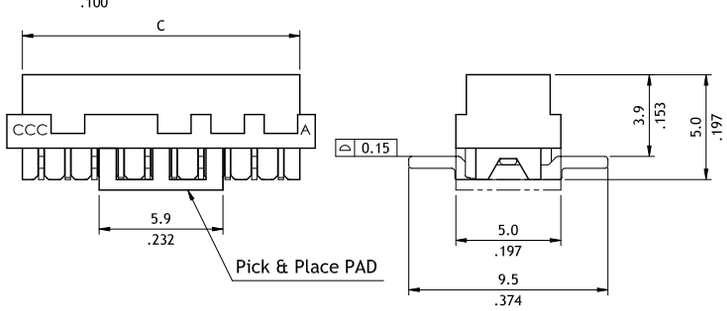
RoHS Compliant







Recommended P.C. Board Layout



A= 1.27 x No. of Spaces
B= A + 3.28
C= A + 1.80
D= A + 3.97
E= A - 1.27
*Available in 4 ~ 26 Circuits

Ordering Code

①	②	③	④	⑤	⑥	⑦
CA32	26	M	1	3	0	A

① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type: M = SMT Type
④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested
⑤ Color: 3 = Red
⑥ Pad Options:
0 = With Pad (Reel Packing)
⑦ Other Options:
A = Middle mount type
0 = Top mount type (Without Latch)
L = Top mount type (With Latch)
*Special options consult manufacturer

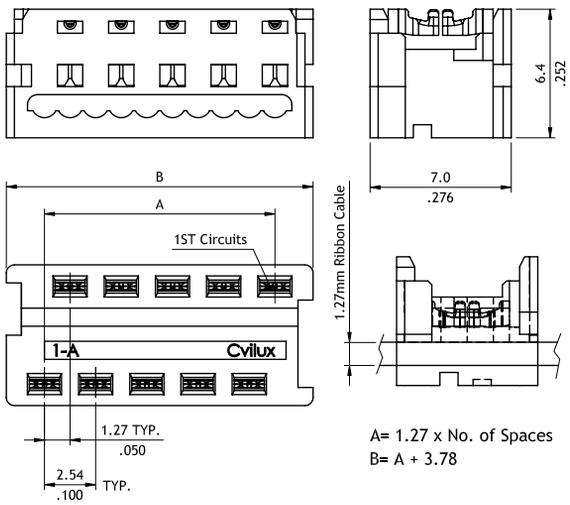
CA33 Series 1.27mm(.050") IDC & Crimping Type Connectors

- ◎ Can be used CW03 1.27mm(.050") Center Spacing flat ribbon cable
- ◎ Mate with CA35 Connectors
- ◎ Can be used CA33 crimp clip terminal
- ◎ Insulator: Glass Filled Polyester UL 94V-0, Color Nature

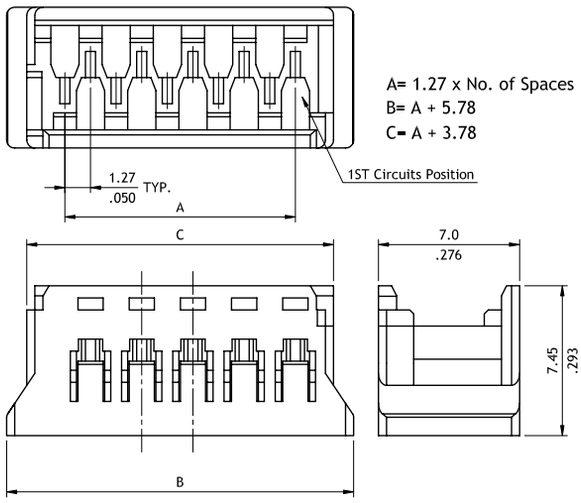
RoHS Compliant HF Pb



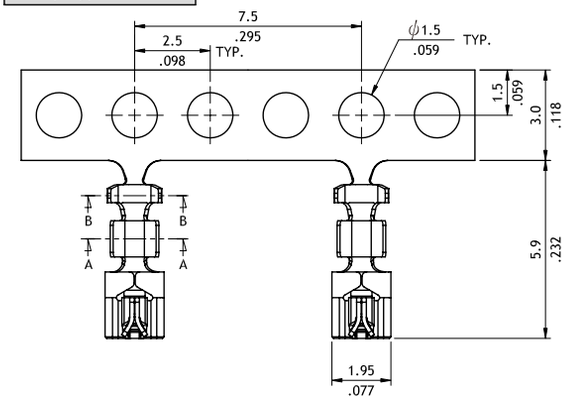
IDC Type

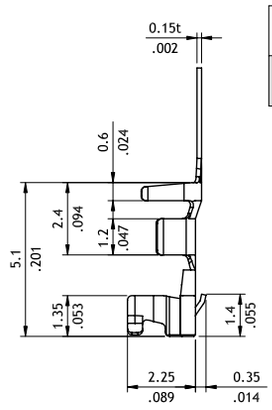


Crimp Type Housing

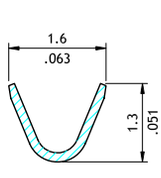


Crimp Type Terminal

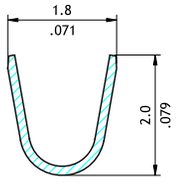




Wire Range	Insulation Diameter	Reel Q'ty
AWG #26~#28	1.35 (.053) MAX.	10,000 PCS.



SEC. A-A



SEC. B-B

Ordering Code

①	②	③	④	⑤	⑥	⑦	⑧
CA33	26	P	1	0	I	0	- NH

① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:
P = Pin Header
④ Plating Code:
1 = Tin over Nickel
⑤ Color: 0 = Nature
⑥ Type: I = IDC Type
⑦ Other Options:
0 = Standard (Tube Packing)
⑧ NH = Halogen-Free

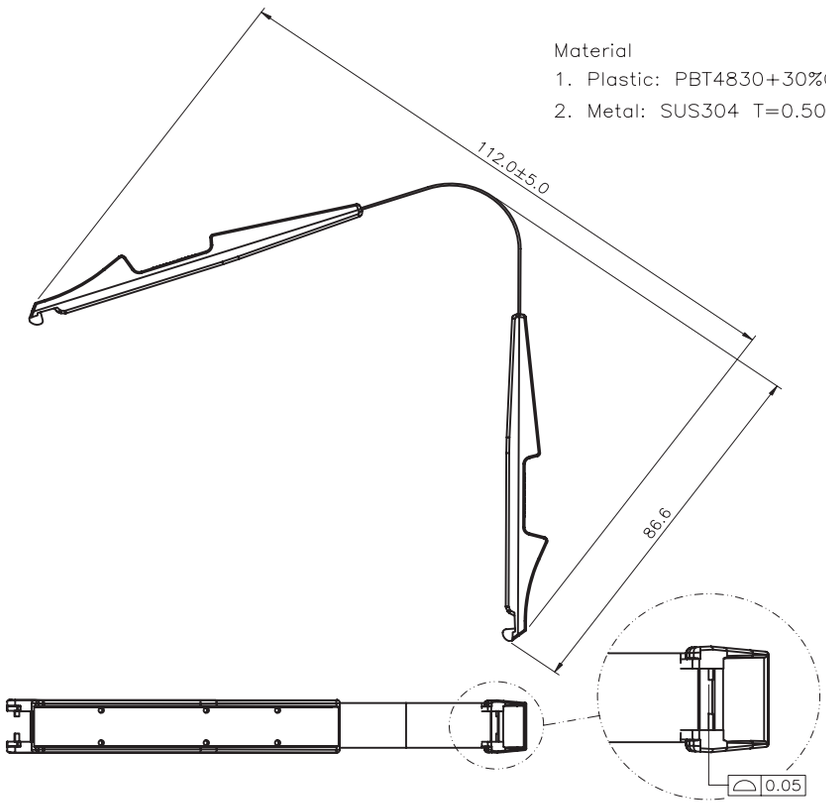
①	②	③	④	⑤	⑥
CA33	26	S00	0	0	- NH

① Series No.
② No. of Circuits: 04 ~ 26
③ Type: S00 = Housing
④ Color: 0 = Nature
⑤ Other Options: 0 = Standard
⑥ NH = Halogen-Free

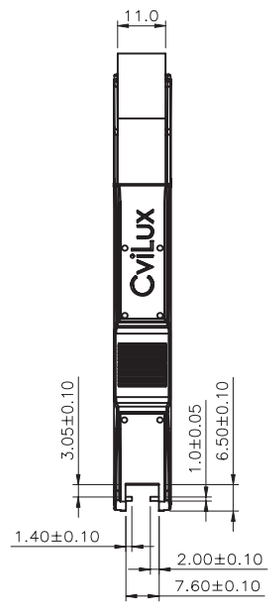
CM19A330000 Pull-off tongs for CA33

◎ Steel and plastic construction with molded prongs
◎ Long life spring steel handles
◎ Designed for field use
◎ This Extractor Tool is for the removal of CA33 series





Material
1. Plastic: PBT4830+30%GF,Color Black
2. Metal: SUS304 T=0.50mm HV=280



To remove a connector from the assembly

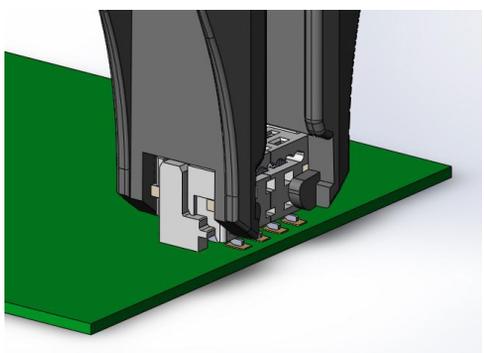
Please follow the steps below:

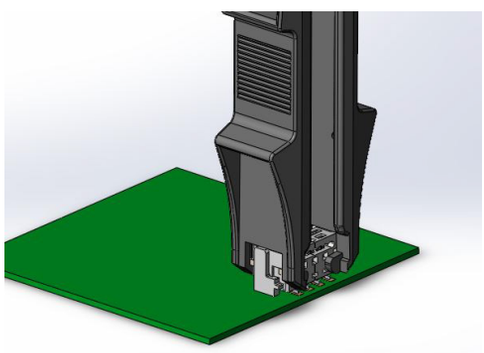
◎ Hold the tool between the thumb and forefinger.

◎ Push the tool together, the prongs are far enough apart to fit over the connector that is being extracted.

◎ Squeeze the prongs together until the locator fingers are in the slots on the end wall of the connector.

◎ While keeping the extractor tool engaged with the connector, pull the connector upright from the header softly.

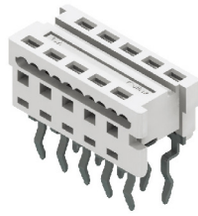


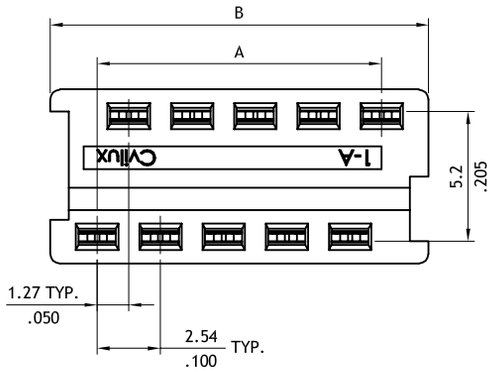


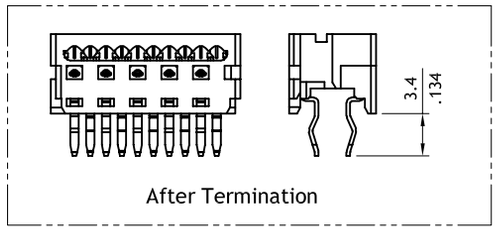
CA34 Series 1.27mm(.050") Flat Cable - IDC DIP Plugs

◎ Can be used CW03 1.27mm(.050") Ccenter Spacing flat ribbon cable
◎ Insulator:Glass Filled Polyester UL 94V-0, Color Nature

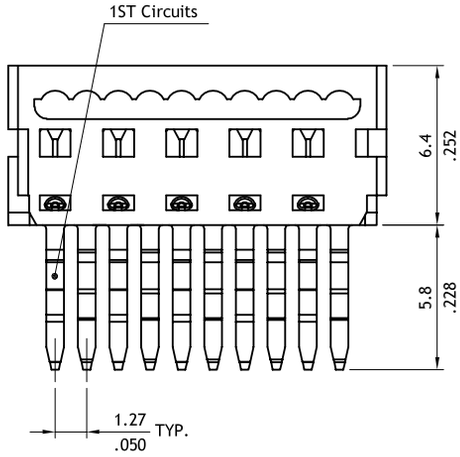
RoHS Compliant HF VL

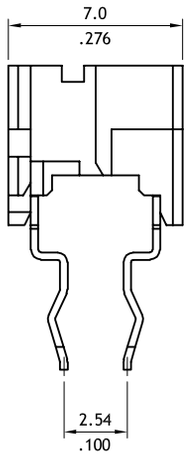


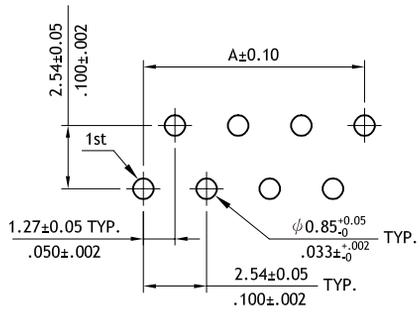




A= 1.27 x No. of Spaces
B= A + 3.78







Recommended
P.C. Board Layout

Ordering Code

①	②	③	④	⑤	⑥	⑦
CA34	26	P	1	0	00	- NH

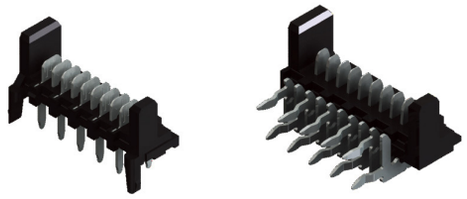
① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:
P = Pin Header

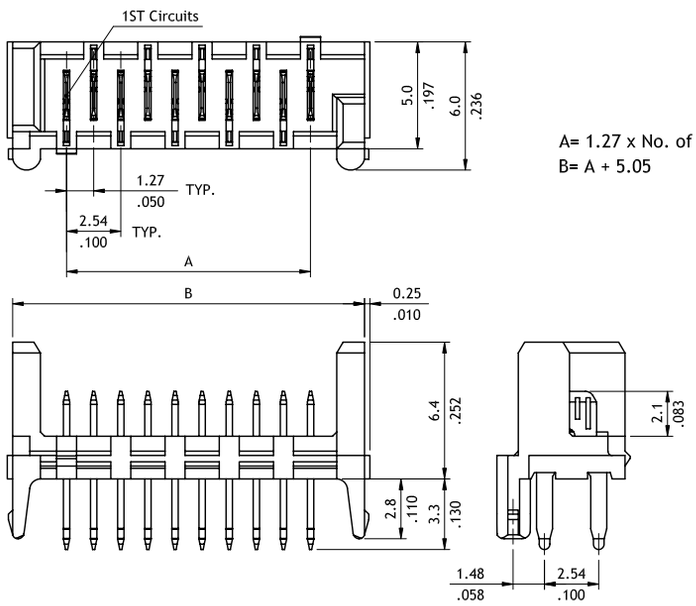
④ Plating Code:
1 = Matte Tin over Nickel
⑤ Color: 0 = Nature
⑥ Other Options: 00 = Standard (Tube Packing)
⑦ NH = For Lead Free Process and Halogen-Free

CA35 Series 1.27mm(.050") Male DIP Type Connectors

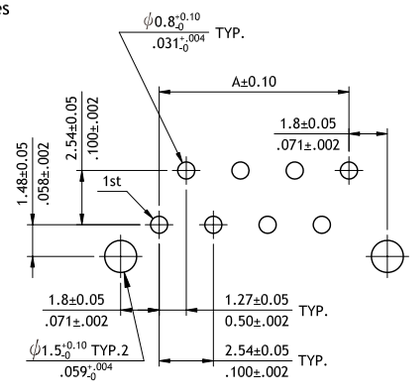
◎ Mate with CA33 connectors
◎ Insulator: High temperature plastic UL 94V-0, Color Black

RoHS Compliant HF

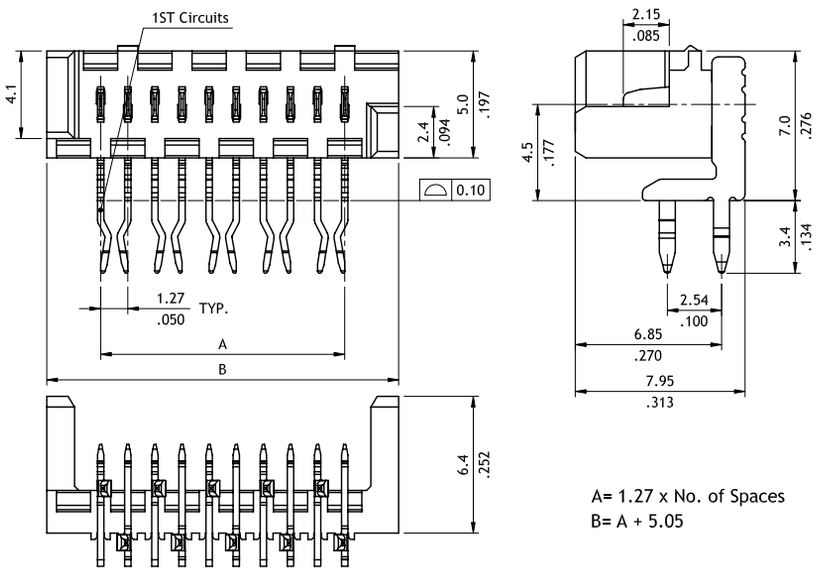




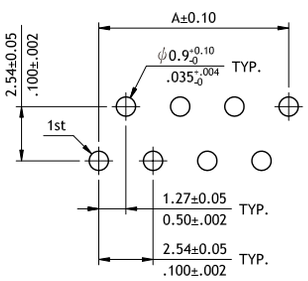
A= 1.27 x No. of Spaces
B= A + 5.05



Recommended P.C. Board Layout



A= 1.27 x No. of Spaces
B= A + 5.05



Recommended P.C. Board Layout

Ordering Code

①	②	③	④	⑤	⑥	⑦
CA35	26	V	1	1	00	- NH

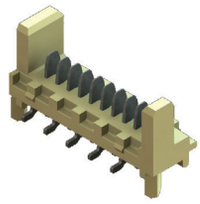
① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:
V = Straight
H = Right Angle

④ Plating Code:
1 = Matte Tin over Nickel
⑤ Color: 1 = Black
⑥ Other Options: 00 = Standard
⑦ NH = For Lead Free Process and Halogen-Free

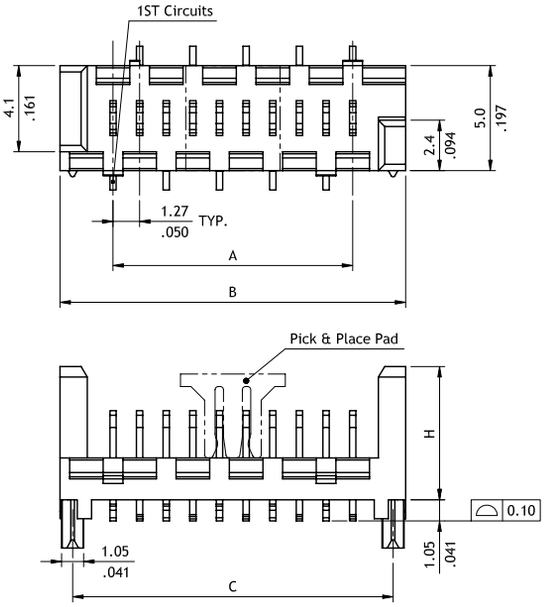
CA35 Series 1.27mm(.050") Male SMT Type Connectors

◎ Mate with CA33 connectors
◎ Insulator:High temperature plastic UL 94V-0, Nature

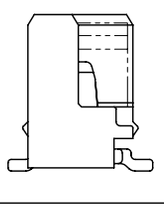
RoHS Compliant

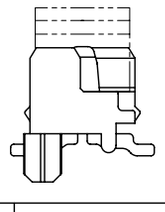


P/N	CA35**M10RP-NH

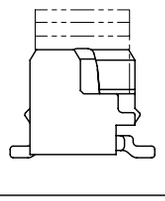


P/N	CA35**M10RE-NH	P/N	CA35**M10RD-NH

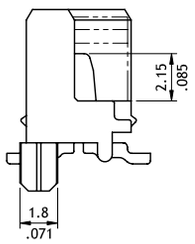




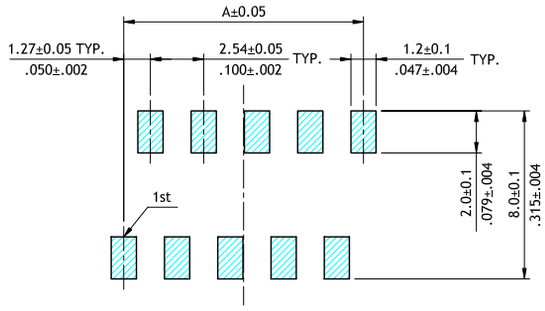
P/N	CA35**M10RG-NH



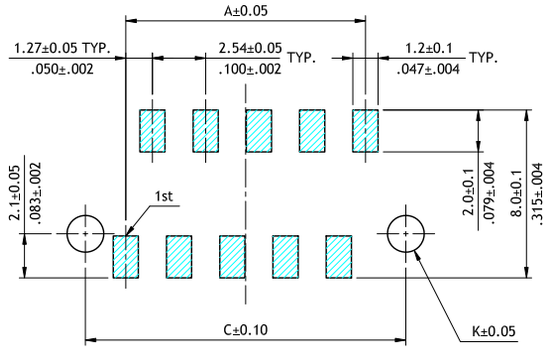
A= 1.27 x No. of Spaces
B= A + 5.05
C= A + 3.85



Transition Fit With P.C.B Pegs	K= 1.75
Clearance Fit With P.C.B Pegs	K= 2.0



P.C.B Layout
Headers Without Plastic Pegs



P.C.B Layout
Headers With Plastic Pegs

Ordering Code

①	②	③	④	⑤	⑥	⑦		⑧
CA35	26	M	1	0	R	P	-	NH

① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:
M = SMT Type
④ Plating Code:
1 = Matte Tin over Nickel

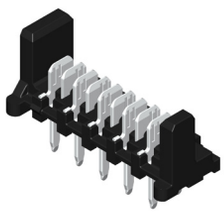
⑤ Color: 0 = Nature
⑥ Packing Options:
R = Tape & Reel
(With pick & place pad)
T = Tube
0 = Bags

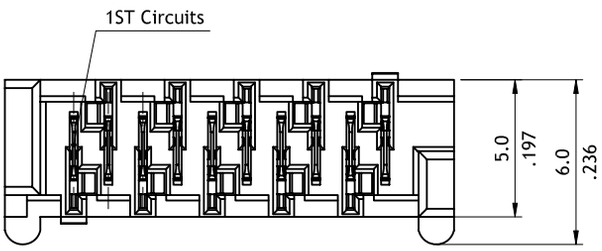
⑦ Other Options:
G = Without positioning pegs, H = 4.10mm
D = With positioning pegs, H = 4.10mm
E = Without positioning pegs, H = 6.40mm
P = With positioning pegs, H = 6.40mm
⑧ NH = For Lead Free IR Process and Halogen-Free

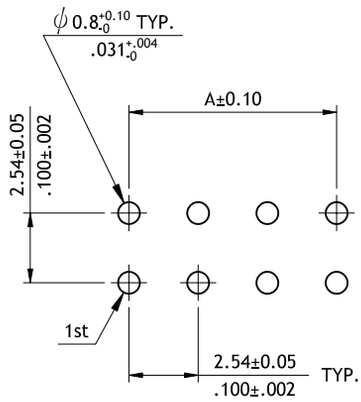
CA35 Series 1.27mm(.050") Female DIP Type Connectors

◎ Mate with CA33 connectors
◎ Insulator:High temperature plastic UL 94V-0, Nature

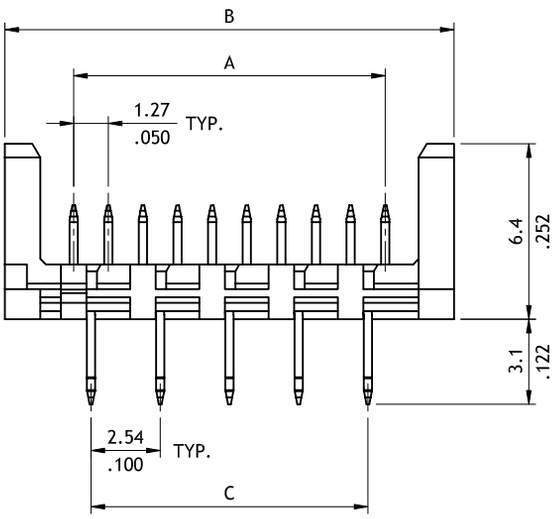
RoHS Compliant

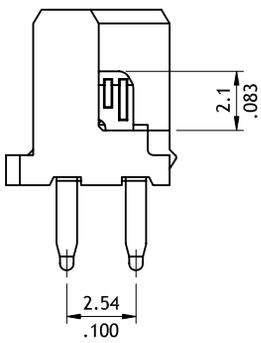






Recommended P.C. Board Layout





A= 1.27 x No. of Spaces
B= A + 5.05
C= 2.54 x No. of Spaces

Ordering Code

①	②	③	④	⑤	⑥	⑦
CA35	26	V	1	1	0B	- NH

① Series No.
② No. of Circuits: 04 ~ 26
③ Contact Type:
V = Straight Type
④ Plating Code:
1 = Matte Tin over Nickel
⑤ Color: 1 = Black
⑥ Options: 0B = Type B
⑦ NH = For Lead Free Process and Halogen-Free

CW03 Series 1.27mm(.050") Flat Ribbon Cable

UL GRADE:

UL STYLE: 2651
Rate temperature: 105 degree celsius
Rate voltage: 300V
Flame Test: VW -1

CONDUCTOR:Standard

AWG size: 28 AWG
Number of strands in each conductor: 7/0.127mm

INSULATION:

Material of insulation: PVC, Color Gray

PHYSICAL PROPERTIES:

after 7 days air oven at 136 degree celsius
Average tensile strength: 1500 lbs/inch
Percent of original: 70% at least
Average elongation: 200%
Percent of original: 65% at least

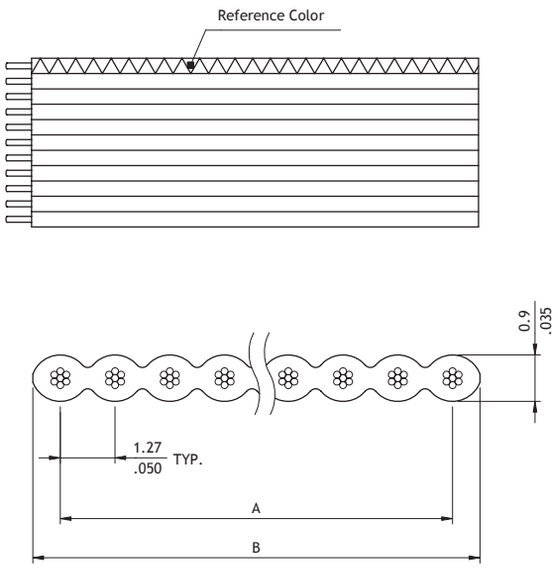
RoHS Compliant

ELECTRICAL CHARACTERISTICS:

Spark test: 2500V
Dielectric strength test: Min. 2KV in 1 minute
Conductor resistance: Max. 237 ohm/km
Insulation resistance: Min. 1G ohm/m
Capacity: 45 PF/m
Inductance: 1.45 uH/m
Impedance: 100 ohm
Propagation Delay Time: 4.2 ns/m



P/N : CW03**D900A

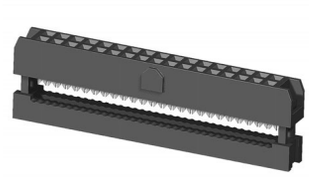


Circuits	Dimension	
	A	B
8	8.89(.350)	10.16(.400)
9	10.16(.400)	11.43(.450)
10	11.43(.450)	12.70(.500)
12	13.97(.550)	15.24(.600)
14	16.51(.650)	17.78(.700)
15	17.78(.700)	19.05(.750)
16	19.05(.750)	20.32(.800)
17	20.32(.800)	21.59(.085)
18	21.59(.085)	22.86(.900)
20	24.13(.950)	25.40(1.000)
24	29.21(1.150)	30.48(1.200)
25	30.48(1.200)	31.75(1.250)
26	31.75(1.250)	33.02(1.300)
28	34.29(1.350)	35.56(1.400)
30	36.83(1.450)	38.10(1.500)
32	39.37(1.550)	40.64(1.600)
34	41.91(1.650)	43.18(1.700)
36	44.45(1.750)	45.72(1.800)
38	46.99(1.850)	48.26(1.900)
40	49.53(1.950)	50.80(2.000)
50	62.23(2.540)	63.50(2.500)
60	74.93(2.950)	76.20(3.000)
64	80.01(3.150)	81.28(3.200)

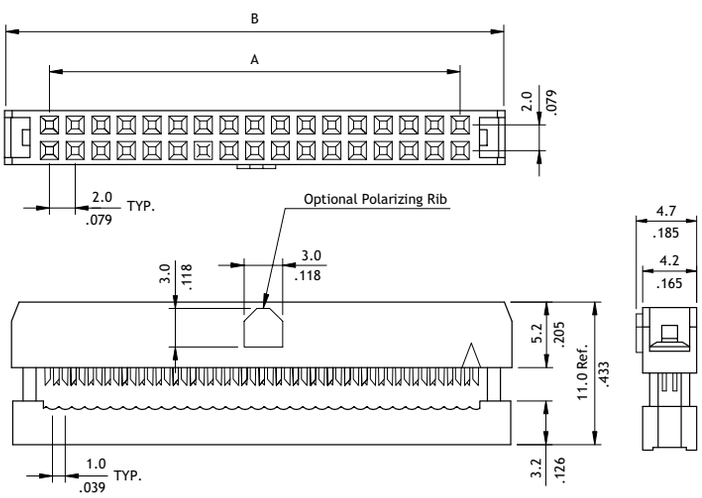
CA11 Series 2.00mm(.079") Center Spacing Flat Cable - IDC Sockets

◎ Mate with CH71, CH75 and CH74 headers
◎ Can be used with CW02 1.00mm(.039") Center Spacing flat ribbon cable

RoHS Compliant

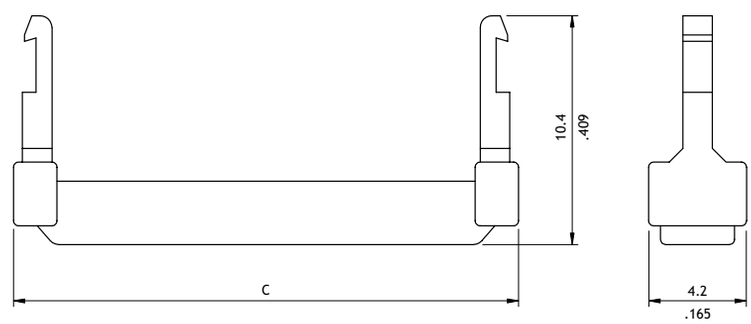


P/N CA11**SA1*0



Circuits	Dimension		
	A	B	C
6	4.0(.157)	11.2(.441)	11.2(.441)
8	6.0(.236)	13.2(.520)	13.2(.520)
10	8.0(.315)	15.2(.598)	15.2(.598)
12	10.0(.394)	17.2(.677)	17.2(.677)
14	12.0(.472)	19.2(.756)	19.2(.756)
16	14.0(.551)	21.2(.835)	21.2(.835)
20	18.0(.709)	25.2(.992)	25.2(.992)
22	20.0(.787)	27.2(1.071)	27.2(1.071)
24	22.0(.866)	29.2(1.150)	29.2(1.150)
26	24.0(.945)	31.2(1.228)	31.2(1.228)
30	28.0(1.102)	35.2(1.386)	35.2(1.386)
32	30.0(1.181)	37.2(1.465)	37.2(1.465)
34	32.0(1.260)	39.2(1.543)	39.2(1.543)
36	34.0(1.339)	41.2(1.622)	41.2(1.622)
40	38.0(1.496)	45.2(1.780)	45.2(1.780)
44	42.0(1.654)	49.2(1.937)	49.2(1.937)
50	48.0(1.890)	55.2(2.173)	55.2(2.173)
60	58.0(2.283)	65.2(2.567)	65.2(2.567)
64	62.0(2.441)	69.2(2.724)	69.2(2.724)

P/N CA11**SR100



Strain Relief

Ordering Code

① ② ③ ④ ⑤ ⑥

CA11 64 S A 1 00

① Series No.
② No. of Circuits: See above table
③ Contact Type: S = Socket
④ Plating Code : A = Selective Gold flash over Nickel
*Optional plating available but MOQ requested
⑤ Color: 1 = Black
⑥ Other Options : 00 = With polarizing rib (Standard)
A0 = Without polarizing rib
*Special options consult manufacturer

① ② ③ ④

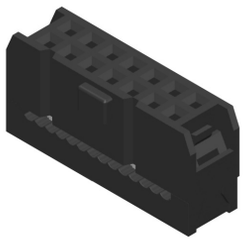
CA11 64 SR 100

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

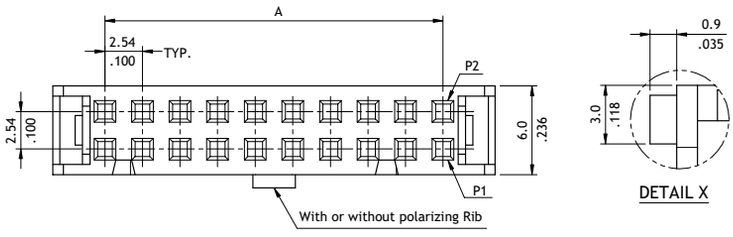
CA21 Series 2.54mm(.100") Center Spacing Flat Cable - IDC Sockets

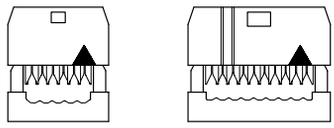
◎ Mate with CH81, CH84, CH87 and CH88 Headers
◎ Can be used with CW03 1.27mm(.050") Center Spacing flat ribbon cable

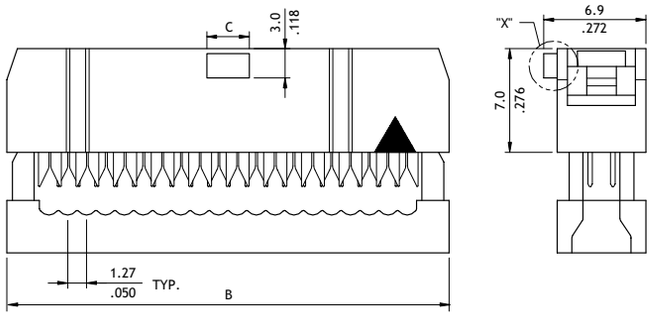
RoHS Compliant



P/N CA21**SA1*0

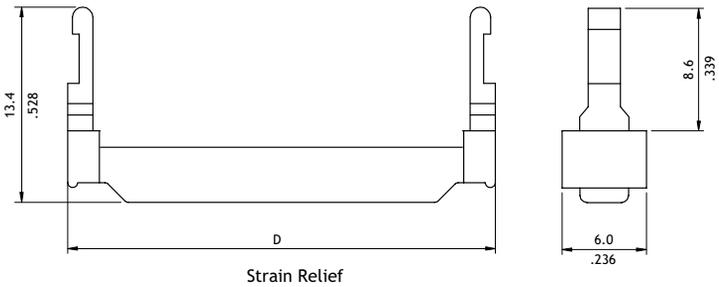






Circuits	Dimension			
	A	B	C	D
6	5.08(.200)	12.32(.472)	1.85(.072)	12.2(.480)
8	7.62(.300)	14.86(.585)	1.85(.072)	14.7(.579)
10	10.16(.400)	17.40(.685)	3.50(.138)	17.3(.681)
12	12.70(.500)	19.94(.785)	3.50(.138)	19.8(.780)
14	15.24(.600)	22.48(.885)	3.50(.138)	22.3(.878)
16	17.78(.700)	25.02(.985)	3.50(.138)	24.9(.980)
20	22.86(.900)	30.10(1.185)	3.50(.138)	30.0(1.181)
24	27.94(1.100)	35.18(1.381)	3.50(.138)	35.0(1.378)
26	30.48(1.200)	37.72(1.485)	3.50(.138)	37.6(1.480)
30	35.56(1.400)	42.80(1.685)	3.50(.138)	42.7(1.681)
34	40.64(1.600)	47.88(1.885)	3.50(.138)	47.7(1.878)
36	43.18(1.700)	50.42(1.985)	3.50(.138)	50.2(1.976)
40	48.26(1.900)	55.50(2.185)	3.50(.138)	55.4(2.181)
44	53.34(2.100)	60.58(2.385)	3.50(.138)	60.4(2.378)
50	60.96(2.400)	68.20(2.685)	3.50(.138)	68.1(2.681)

P/N CA21**SR100



Strain Relief

Ordering Code

① ② ③ ④ ⑤ ⑥
CA21 50 S A 1 00

① Series No.
② No. of Circuits: See above table
③ Contact Type: S = Socket
④ Plating Code : A = Selective Gold flash over Nickel
*Optional plating available but MOQ requested
⑤ Color: 1 = Black
⑥ Other Options: 00 = With polarizing rib(Standard)
A0 = Without polarizing rib
*Special options consult manufacturer

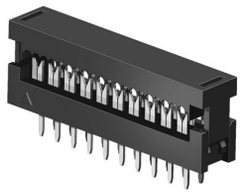
① ② ③ ④
CA21 50 SR 100

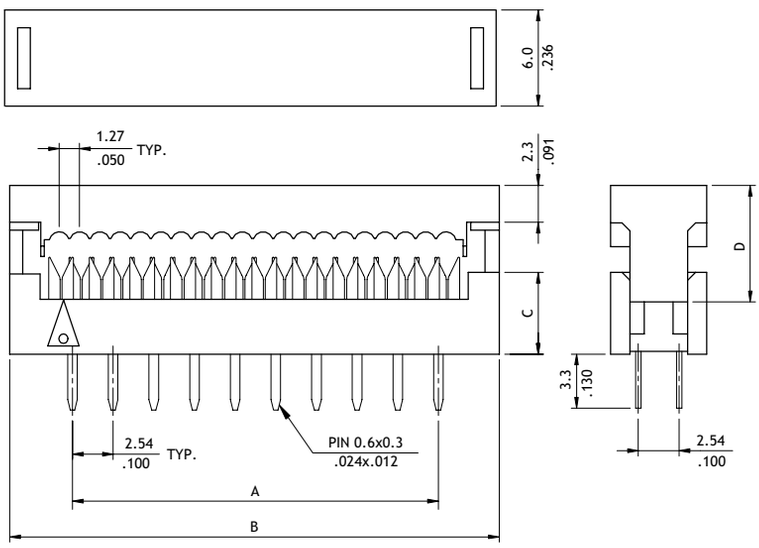
① Series No.
② Contacts: See above table
③ SR = Strain-Relief
④ Color: 100 = Black

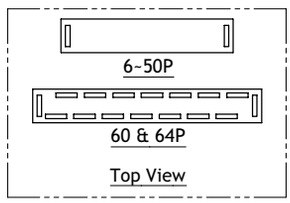
CA23 Series 2.54mm(.100") Center Spacing Flat Cable - IDC DIP Plugs

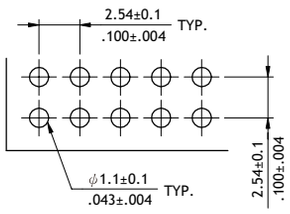
◎ Can be used with CW03 1.27mm(.050) Center Spacing flat ribbon cable

RoHS Compliant









Recommended P.C. Borad Layout

Circuits	Dimension			
	A	B	C	D
6	5.08(.200)	12.98(.511)	5.00(.197)	7.23(.284)
8	7.62(.300)	15.52(.611)	5.00(.197)	7.23(.284)
10	10.16(.400)	18.06(.711)	5.00(.197)	7.23(.284)
12	12.97.500)	20.60(.811)	5.00(.197)	7.23(.284)
14	15.24(.600)	23.14(.911)	5.00(.197)	7.23(.284)
16	17.78(.700)	25.68(1.011)	5.00(.197)	7.23(.284)
18	20.32(.800)	28.22(1.111)	5.00(.197)	7.23(.284)
20	22.86(.900)	30.76(1.211)	5.00(.197)	7.23(.284)
24	27.94(1.100)	35.84(1.411)	5.00(.197)	7.23(.284)
26	30.48(1.200)	38.38(1.511)	5.00(.197)	7.23(.284)
28	33.02(1.300)	40.92(1.611)	5.00(.197)	7.23(.284)
30	35.56(1.400)	43.46(1.711)	5.00(.197)	7.23(.284)
34	40.64(1.600)	48.54(1.911)	5.00(.197)	7.23(.284)
40	48.26(1.900)	56.16(2.211)	5.00(.197)	7.23(.284)
50	60.96(2.400)	68.86(2.711)	5.00(.197)	7.23(.284)
60	73.66(2.900)	81.65(3.215)	4.00(.157)	6.23(.245)
64	78.74(3.100)	86.73(3.415)	4.00(.157)	6.23(.245)

Ordering Code

①	②	③	④	⑤	⑥
CA23	64	P	A	1	00

① Series No.
② No. of Circuits: See above table
③ Contact Type=P= Plug
④ Plating Code:
A=Selective Gold flash over Nickel
*Optional plating available but MOQ requested
⑤ Color:1 = Black
⑥ Other Options:
00 = Standard
*Special options consult manufacturer