

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:

Current rating: 1 Amp
 Dielectric Withstanding Voltage:
 500 VAC for one minute
 Contact Resistance: < 10 mΩ
 Insulation Resistance: > 1000 MΩ
 Operating Temperature: -40°C ~ +105°C
 Wire: 28 AWG, 7/36 stranded

Physical:

Insulator: Red, Glass Filled Polyester as standard
 Flammability Rating: UL 94V-0
 Contacts: Phosphor Bronze
 Contacts plating: Selective gold on surface contact area
 Please see ordering code plating options.

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

Electrical:

Current rating: 1 Amp
 Dielectric Withstanding Voltage:
 500 VAC for one minute
 Contact Resistance: < 30 mΩ
 Insulation Resistance: > 1000 MΩ
 Operating Temperature: -40°C ~ +105°C
 Wire: 28 AWG, 7/36 stranded

Physical:

Insulator: Black, Glass Filled Polyester as standard
 Flammability Rating: UL 94V-0
 Contacts: Phosphor Bronze
 Contacts plating: Selective gold on surface contact area
 Please see ordering code plating options.

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

Electrical:

Current rating: 1 Amp
 Dielectric Withstanding Voltage:
 1000 VAC for one minute
 Contact Resistance: < 30 mΩ
 Insulation Resistance: > 1000 MΩ
 Operating Temperature: -40°C ~ +105°C
 Wire: 28 AWG, 7/36 stranded

Physical:

Insulator: Black, Glass Filled Polyester
 Flammability Rating: UL 94V-0
 Contacts: Phosphor Bronze or Brass
 Contacts plating: Selective gold on surface contact area
 Please see ordering code plating options.

CA

- RoHS Compliant 



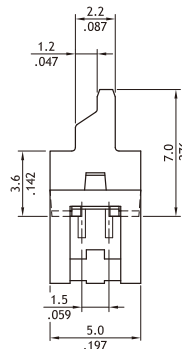
Technical drawing of a 15T circuit board, showing top and side views with dimensions.

Top View Dimensions:

- Overall width: C
- Overall height: A
- Distance between component rows: $1.27 \pm .050$ TYP.
- Distance between component columns: $2.54 \pm .100$ TYP.
- Distance from top edge to first row of components: $1.5 \pm .059$
- Distance from first row of components to second row: $4.1 \pm .161$
- Distance from second row of components to bottom edge: $5.0 \pm .107$
- Label: 15T Circuits

Side View Dimensions:

- Overall width: B
- Overall height: D
- Distance from top edge to first row of components: $5.15 \pm .203$
- Distance from first row of components to second row: $1.35 \pm .063$
- Distance from second row of components to bottom edge: $1.18 \pm .046$
- Distance between component columns: $1.27 \pm .050$ TYP.



Technical drawing of a 15T circuit board, showing dimensions in inches. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: B
- Overall length: C
- Conductor pitch (Total): A
- Conductor pitch (Individual): $1.27 \pm .050$ TYP.
- Mounting hole diameter: $.059$
- Mounting hole spacing: 1.5
- Mounting hole diameter: 4.1
- Mounting hole spacing: $.161$
- Mounting hole diameter: 5.0
- Mounting hole spacing: $.197$
- Mounting hole diameter: $2.54 \pm .100$ TYP.
- Mounting hole spacing: $0.5 \pm .020$

Side View Dimensions:

- Overall height: $7.0 \pm .276$
- Mounting hole diameter: $2.2 \pm .087$
- Mounting hole spacing: $2.54 \pm .100$
- Mounting hole diameter: $3.1 \pm .122$
- Mounting hole spacing: $6.7 \pm .264$
- Mounting hole diameter: $1.27 \pm .050$ TYP.
- Mounting hole spacing: A
- Mounting hole diameter: $15T$ Circuits

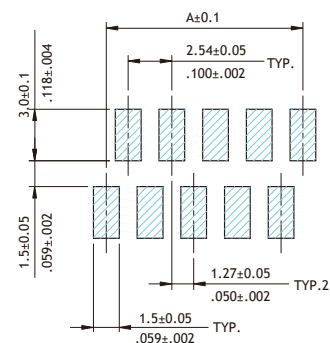
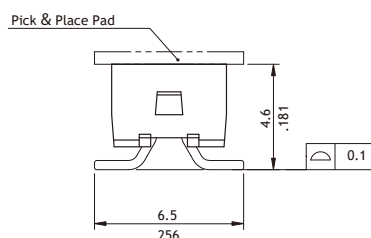
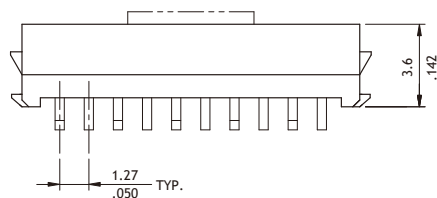
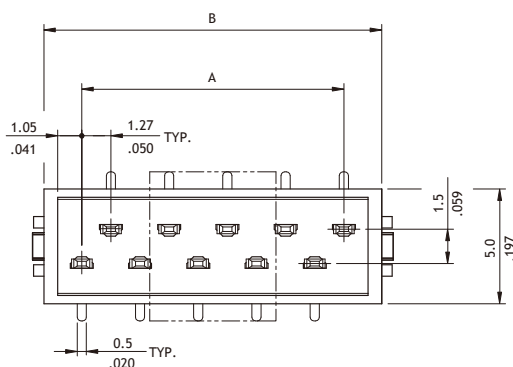
①	②	③	④	⑤	⑥	⑦
CA30	26	P	1	3	0	0

- 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 IDC SMT Type Connectors

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

RoHS Compliant  



Solder Pad Pattern

Ordering Code

① CA ② 3 ③ 0 ④ 2 ⑤ 6 ⑥ M ⑦ 1 ⑧ 3 ⑨ R ⑩ 0

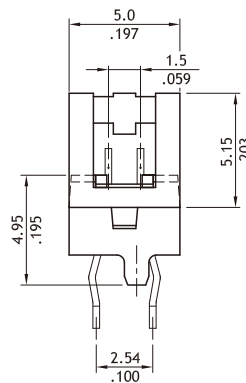
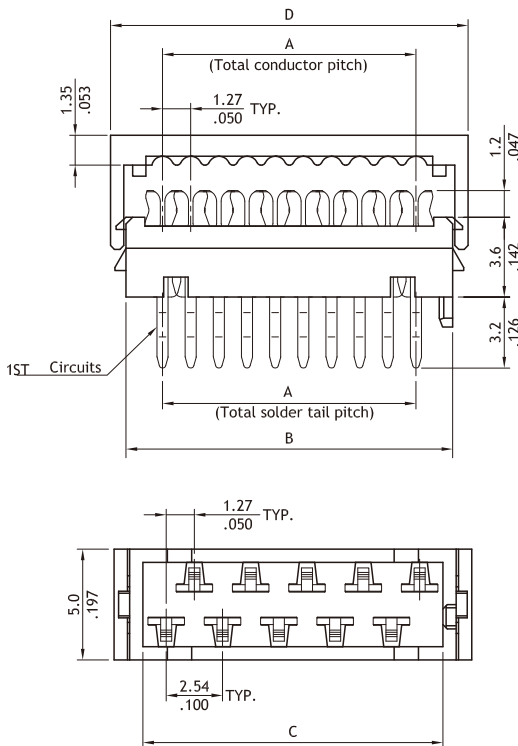
- ① Series No.
- ② No. of Circuits: 04 to 26
- ③ Contact Type: M = SMT
- ④ Plating Code:
1 = Matte Tin over Nickel
*Optional plating available but MOQ requested

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

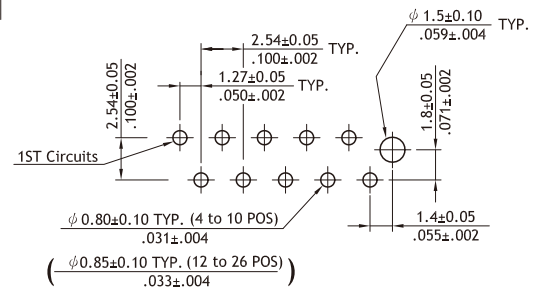
CA31 Series 1.27mm(.050") Flat Cable - IDC DIP Type Connectors

© 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 CA ② 31 ③ 26 ④ P ⑤ 1 ⑥ 3 00

① Series No.

② No. of Circuits: 04 to 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

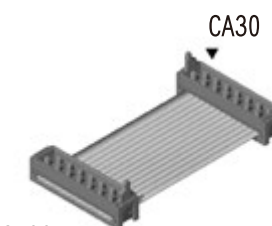
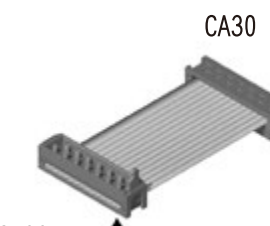
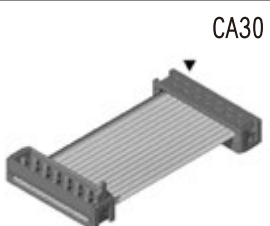
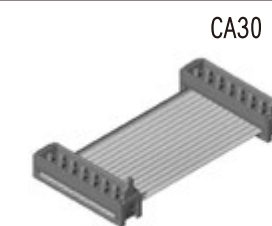
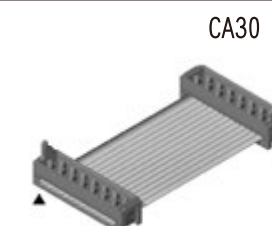
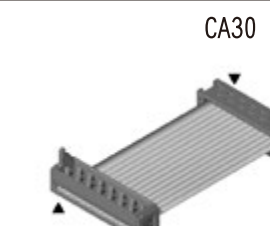
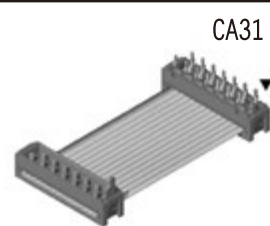
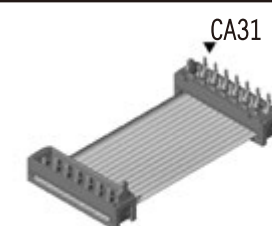
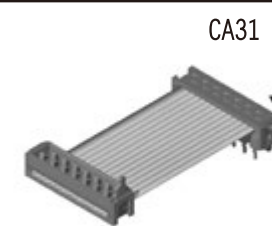
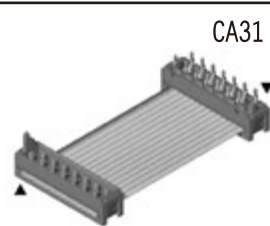
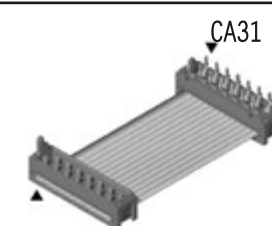
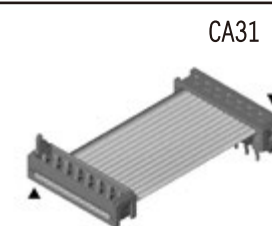
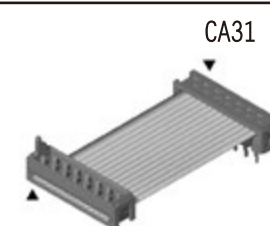
Compact and low profile IDC connector with 1.27mm pitch flat cable assembly combinations.

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

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

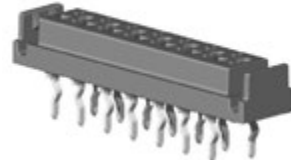
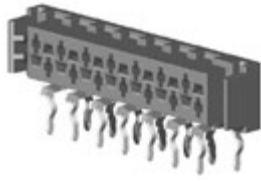
Please check below sketch for all kinds of options and advice more details (length, stripped, red line positions, polarizing direction....etc.) we will follow up your request accordingly.

Consult CviLux sales person if customized assembly required.

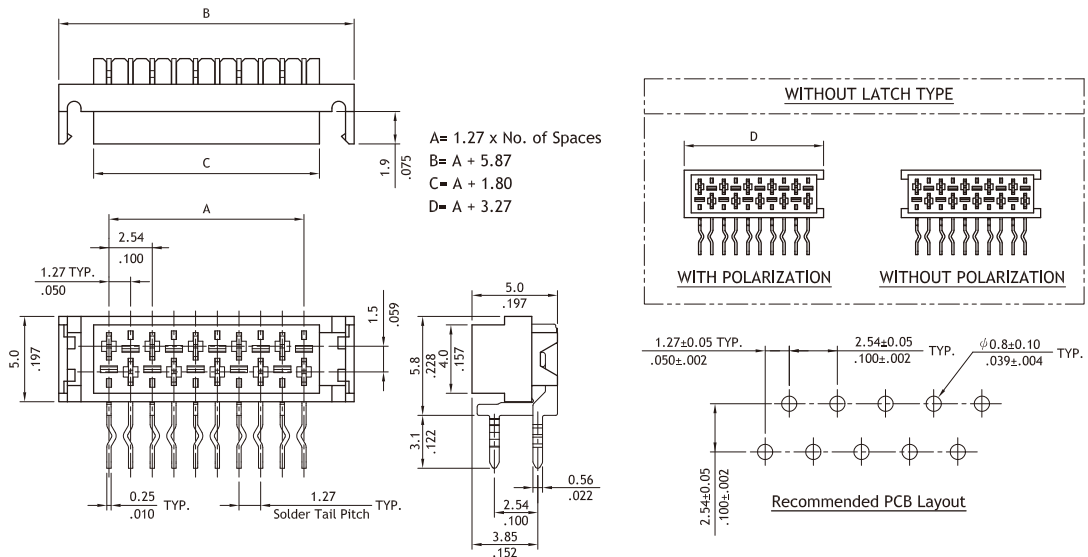
TYPE A	TYPE B	TYPE C	TYPE D
			
TYPE E	TYPE F	TYPE G	TYPE H
			
TYPE J	TYPE K	TYPE M	TYPE N
			
TYPE P	TYPE Q	TYPE R	TYPE S
			

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

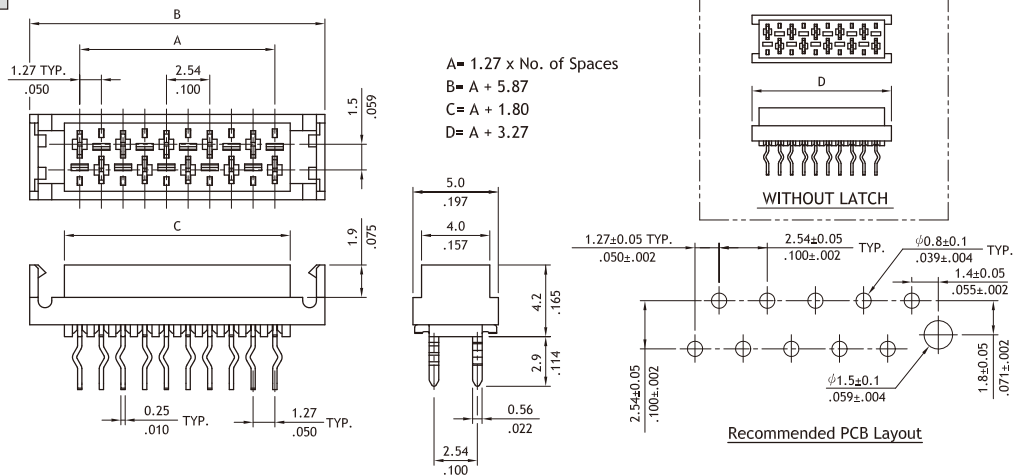
☉ Mate with CA30 connector

RoHS Compliant 

P/N CA32**H**00



P/N CA32**V**00



Ordering Code

①	②	③	④	⑤	⑥
CA	32	26	H	1	3 00

- ① Series No.
- ② No. of Circuits: 04 to 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

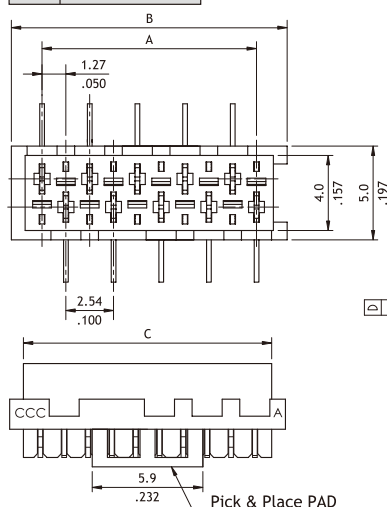
CA32 Series 1.27mm(.050") Female SMT Type Connectors

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

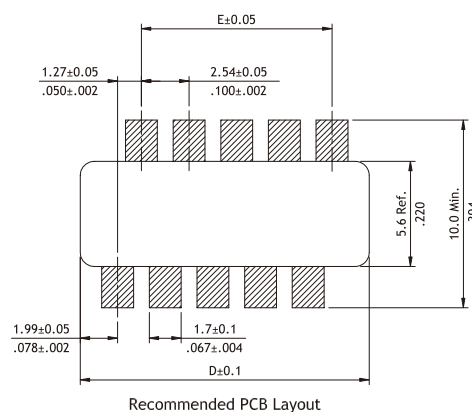
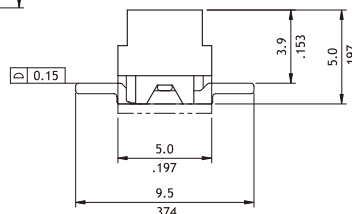
RoHS Compliant



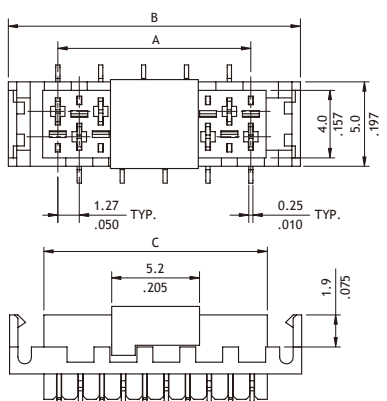
P/N CA32**M**0A



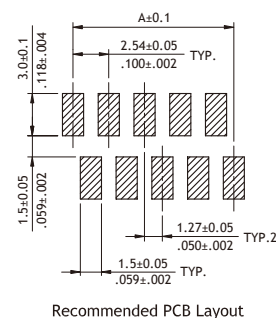
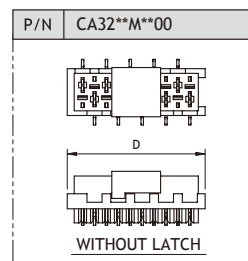
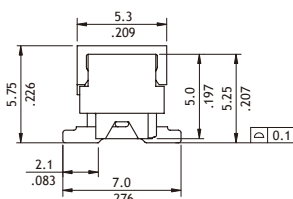
A = 1.27 x No. of Spaces
 B = A + 3.28
 C = A + 1.80
 D = A + 3.97
 E = A - 1.27



P/N CA32**M**0L



A = 1.27 x No. of Spaces
 B = A + 5.87
 C = A + 1.80
 D = A + 3.27



Ordering Code

① ② ③ ④ ⑤ ⑥ ⑦
 CA32 26 M 1 3 0 A

- ① Series No.
- ② No. of Circuits: 04 to 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

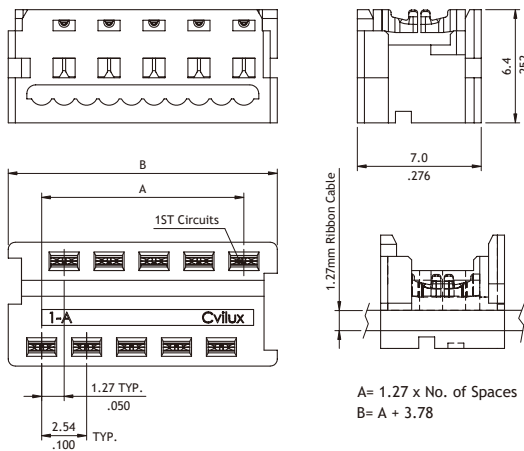
- Can be used CW03 1.27mm(.050") Center Spacing flat ribbon cable
- Mate with CA35 Connectors
- Can be used CA33 crimp clip terminal
- Insulator: Glass Filled Polyester UL 94V-0, Color Nature



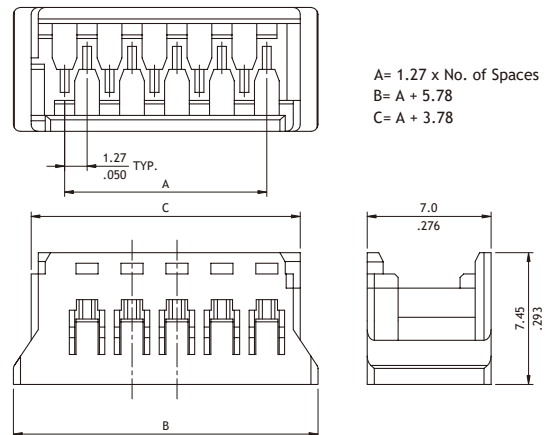
RoHS Compliant



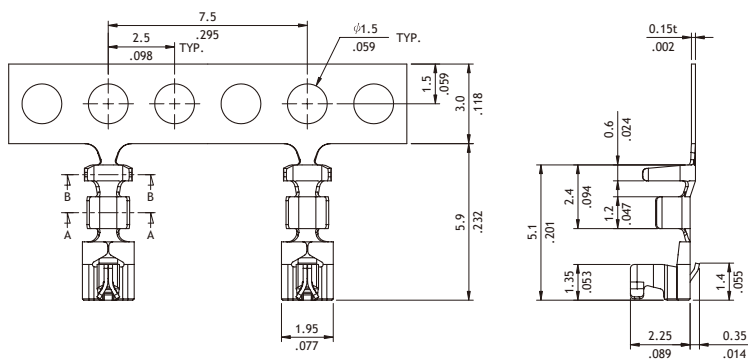
P/N CA33**P10I0-NH



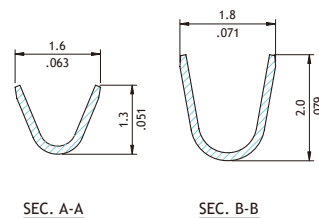
P/N CA33**S0000-NH



P/N CA33T011PE0



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



Ordering Code

① C ② A ③ 3 ④ 3 ⑤ 2 ⑥ 6 ⑦ P ⑧ 1 ⑨ 0 ⑩ I ⑪ 0 - ⑫ NH

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

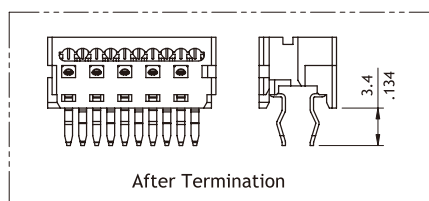
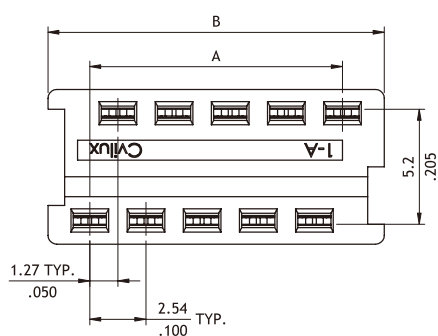
① C ② A ③ 3 ④ 3 ⑤ 2 ⑥ 6 ⑦ S ⑧ 0 ⑨ 0 ⑩ 0 - ⑪ NH

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

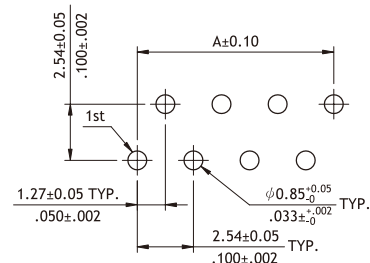
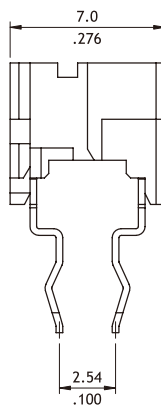
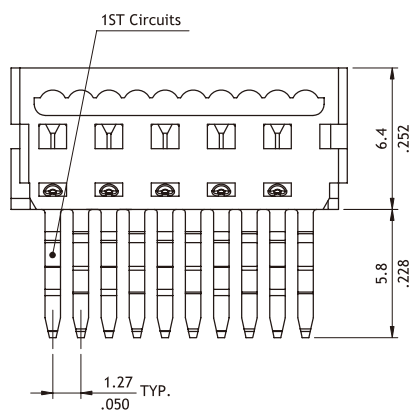
CA34 Series 1.27mm(.050") Flat Cable - IDC DIP Plugs

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

RoHS Compliant  



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



Recommended PCB Layout

Ordering Code

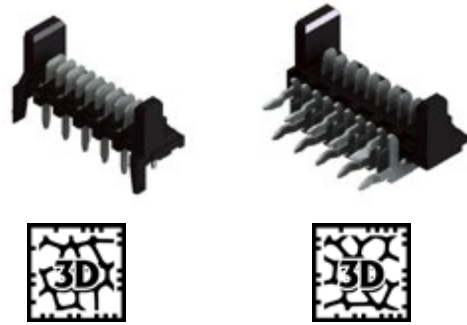
① CA ② 3 ③ 4 ④ 2 ⑤ 6 ⑥ P ⑦ 1 ⑧ 0 ⑨ 0 ⑩ 0 - ⑪ NH

- ① Series No.
- ② No. of Circuits: 04 to 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 Process: -NH = For Lead Free Process and Halogen-Free

CA

- RoHS Compliant  



1ST Circuits

5.0
.197
6.0
2.36

1.27
TYP.
.050

2.54
TYP.
.100

A

B

0.25
.010

6.4
.252

2.8
.110
3.3
1.30

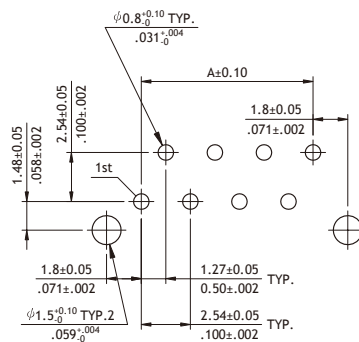
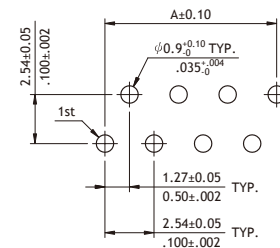


Figure 1: Dimensions of the 1ST Circuits. The diagram shows two views of a circuit board. The top view shows a rectangular board with dimensions 4.1 (width) and 5.0 (length). It features 10 vertical strips, each with a width of 1.27. The spacing between strips is .050 TYP. The bottom view shows a similar board with dimensions 6.4 (width) and .252 (length). It features 10 vertical strips, each with a width of 1.27. The spacing between strips is .050 TYP. The boards are labeled '1ST Circuits'.

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a cross-section of a component with various features and dimensions.

Dimensions (inches):

- Top width: 2.15
- Top width: .085
- Left height: 4.5
- Left height: .177
- Right height: 7.0
- Right height: .776
- Bottom right height: 3.4
- Bottom right height: .134
- Bottom width: 6.85
- Bottom width: .270
- Bottom width: 7.95
- Bottom width: .313
- Bottom width: 2.54
- Bottom width: .100



① ② ③ ④ ⑤ ⑥ ⑦

CA35 26 V 1 1 00 - NH

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

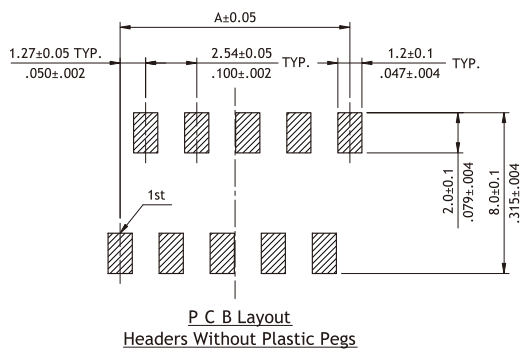
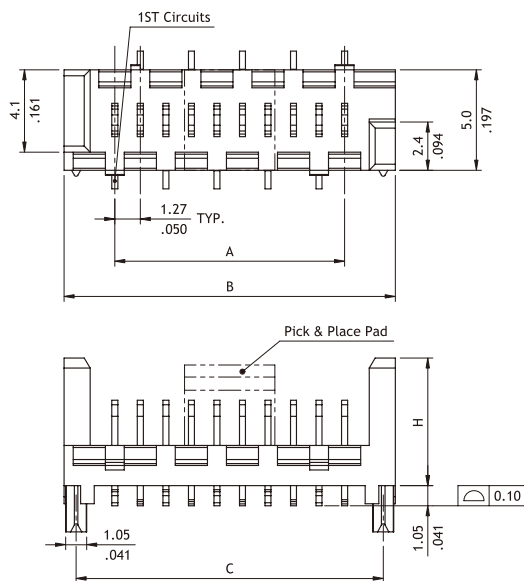
CA35 Series 1.27mm(.050") Male SMT Type Connectors

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

RoHS Compliant

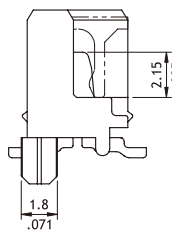


P/N	CA35**M10RP-NH
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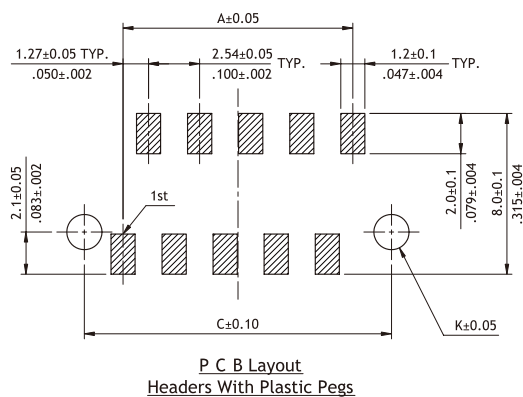


P/N	CA35**M10RE-NH	P/N	CA35**M10RD-NH
		P/N	CA35**M10RG-NH

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 = 2.00



Ordering Code

① ② ③ ④ ⑤ ⑥ ⑦ ⑧
C A 3 5 2 6 M 1 1 R P - NH

- ① Series No.
- ② No. of Circuits: 04 to 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 Process: -NH = For Lead Free IR 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



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

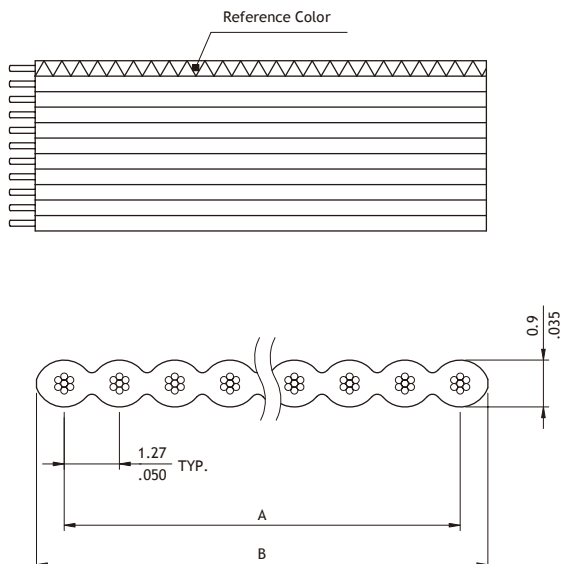
Inductance: 1.45 uH/m

Impedance: 100 ohm

Propagation Delay Time: 4.2 ns/m



P/N : CW03**D900A

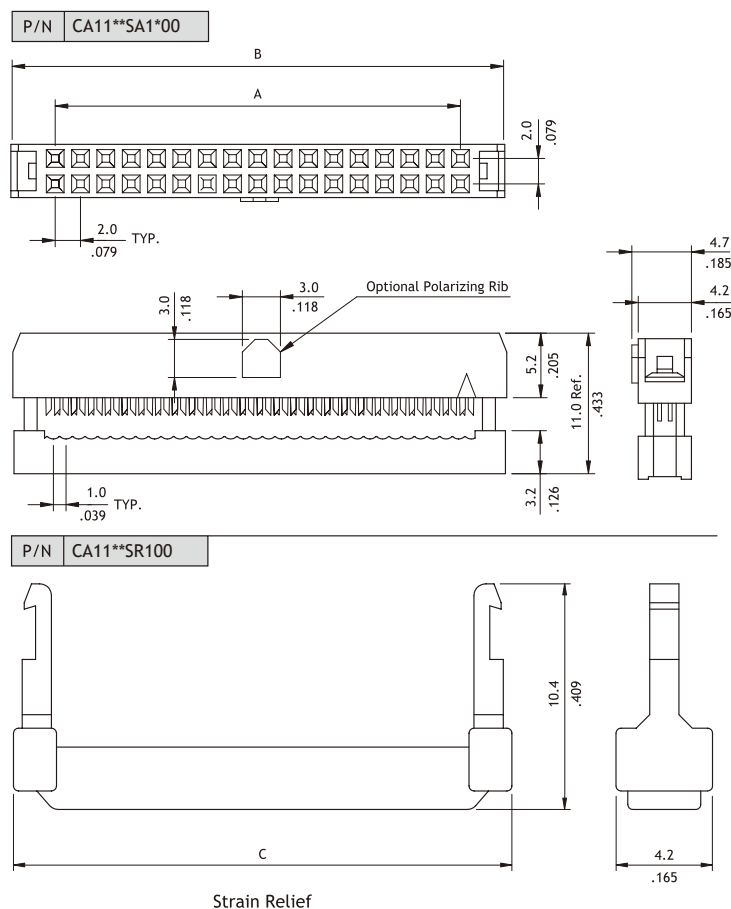
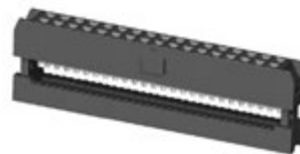


Circuits	Dimension	
	A	B
8	8.89(.350)	10.16(.400)
9	10.16(.400)	11.43(.450)
10	11.43(.450)	12.70(.500)
12	13.97(.550)	15.24(.600)
14	16.51(.650)	17.78(.700)
15	17.78(.700)	19.05(.750)
16	19.05(.750)	20.32(.800)
17	20.32(.800)	21.59(.850)
18	21.59(.850)	22.86(.900)
20	24.13(.950)	25.40(1.000)
24	29.21(1.150)	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

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

RoHS Compliant 



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)

Ordering Code

① CA ② 1 ③ 1 ④ 6 ⑤ 4 ⑥ S A 1 0 0

- ① Series No.
- ② No. of Circuits: See above table
- ③ Contact Type: S = Socket
- ④ Plating:
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

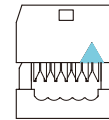
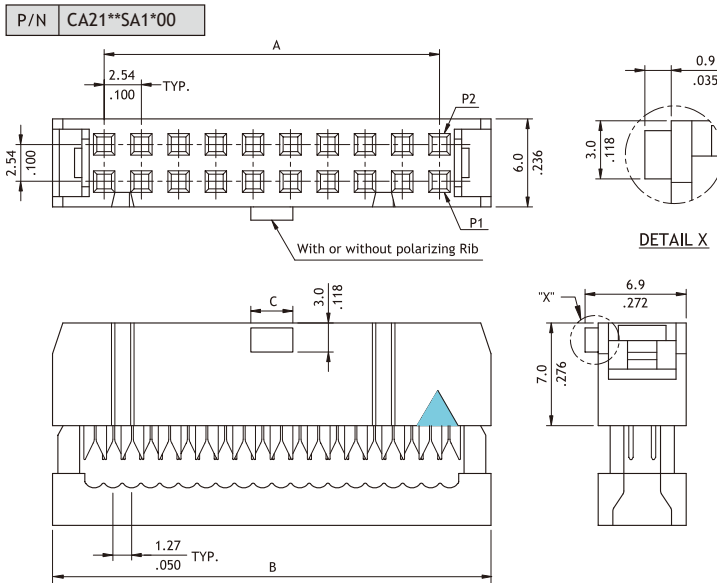
① CA ② 1 ③ 1 ④ 6 ⑤ SR ⑥ 1 0 0

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

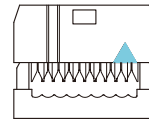
CA21 Series 2.54mm(.100") Center Spacing Flat Cable - IDC Sockets

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

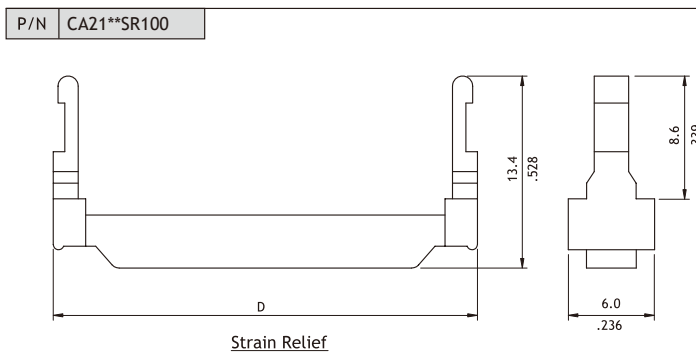
RoHS Compliant



6,8 Circuits



10,12 Circuits



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)
56	68.58(2.700)	75.82(2.985)	3.50(.138)	75.7(2.980)
60	73.66(2.900)	80.90(3.185)	3.50(.138)	80.8(3.181)
62	76.20(3.000)	83.44(3.285)	3.50(.138)	83.3(3.280)
64	78.74(3.100)	85.98(3.385)	3.50(.138)	85.8(3.378)

Ordering Code

① ② ③ ④ ⑤ ⑥
CA 2 1 6 4 S A 1 0 0

- 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

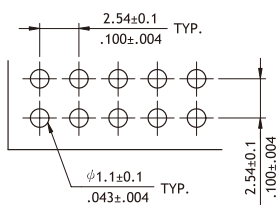
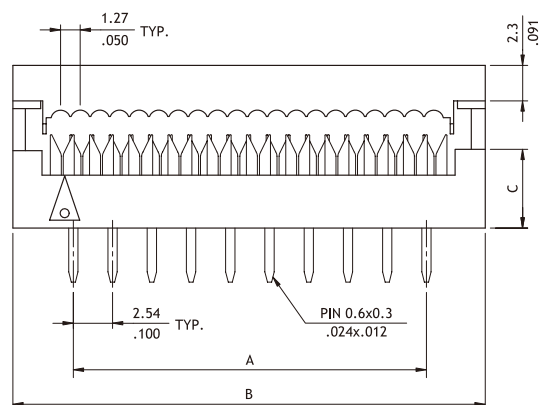
① ② ③ ④
CA 2 1 6 4 S R 1 0 0

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

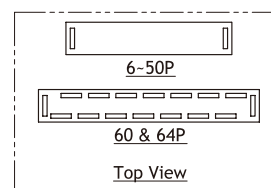
CA23 Series 2.54mm(.100") Center Spacing Flat Cable - IDC DIP Plugs

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

RoHS Compliant 



Recommended PCB 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	12.70(.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)	43.76(1.611)	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 CA ② 23 ③ P ④ A ⑤ 1 ⑥ 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