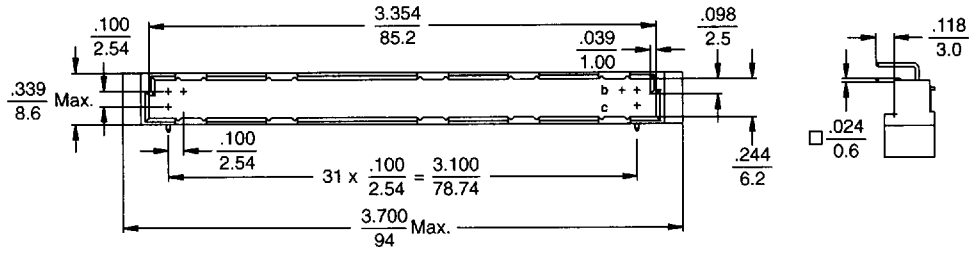
DIN Styles B & C
Standard 41612

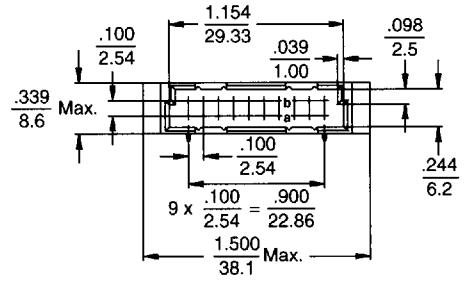
6033 Series — Pin Connector

OUTLINE

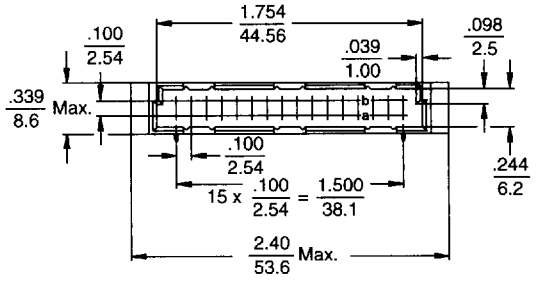
Style B
2 Rows of 32 = 64 Positions

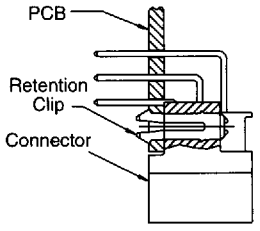


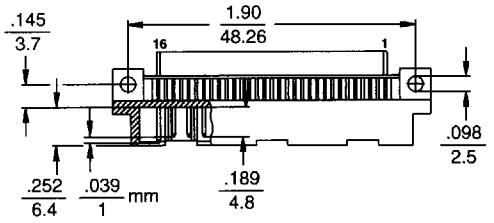
Style B
2 Rows of 10 = 20 Positions



Style Half B
2 Rows of 16 = 32 Positions







ORDERING INFORMATION

Example: 96P-6033-0731-0

96P	6033	07	31	0	◐

Step 1
Style:
- **20P** = Third B 2 x 10
- **30P** = Third C 3 x 10
- **32P** = Half B 2 x 16
- **48P** = Half C 3 x 16
- **64P** = B-2 x 32
- **96P** = C-3 x 32

Step 2
Series:
6033

Step 3
Contact Configuration:

Code	Contact Sequence	Row
01	All positions	A
04	All positions	A & B
05	All positions	A & C
07	All positions	A, B & C
14	Even positions	A & B
15	Even positions	A & C
17	Even positions	A, B & C

Step 4
Performance Class:

Code	Contact Area	Terminal
22	Class 1	Tin / Lead
31	Class 2	Tin / Lead

Step 5
Termination:

Code	Dip Solder
0	L = 118 (3 mm)
3	L = .133 (3.4 mm)
4	L = .173 (4.39 mm)
Code	**Mini Wire Wrap**
6	L = .512 (13 mm)
7	L = .669 (17 mm)
Code	**Right angle press-fit**
9	L = .134 (3.40 mm)

Step 6
Special Features:

Code	Options
Blank	No special options
T	Retention clip installed for .063 (1.60) P.C.B.
R	Retention clip installed for .098 (2.49) P.C.B.
S	Retention clip installed for .125 (3.18) P.C.B.
E1	Outer Pins of Row A Extended
E3	Outer Pins of Row C Extended
E13	Outer Pins of Row A & C Extended

*Note: Retention clip not available for use when termination code = 3

Recognized under the Component Program of Underwriters Laboratories Inc. File No. E31650

For specifications, see page DN / **1**
For P.C. Board hole patterns, see page DN / **42**
For installation tooling, see page DN / **40**

A-61-13

DIN

SPECIFICATIONS

Series	6003	6033	6043
DIN 41612 Style	D & E	B & C	Q & R
GENERAL			
No. of Contacts (Max.)	32,48	32,48,64,96	20,32,48,96,096
Temperature Range	-65°C to +125°C	-60°C to +140°C	-65°C to +140°C
ELECTRICAL DATA			
Current Rating	4 Amps @ 70°C	1 Amp @ 70°C	1 Amp @ 70°C
Contact Resistance	20 Milliohms (Max)	20 Milliohms (Max)	20 Milliohms (Max)
MATERIALS			
Insulator	Polycarbonate	Thermoplastic Polyester	Thermoplastic Polyester
Contact (Pin)	CuZn	CuZn	CuZn or CuSn
Contact (Socket)	CuZn	CuZn	CuSn, CuNiSn
MATING FORCES			
Insertion Force (Max)	32 Pos. 8.8 lb 48 Pos. 13.2 lb	30 Pos. 6.2 lb 32 Pos. 6.6 lb 48 Pos. 9.9 lb 64 Pos. 32.2 lb 96 Pos. 19.8 lb	20 Pos. 4.1 lb 32 Pos. 16.1 lb 48 Pos. 9.9 lb 64 Pos. 32.2 lb 96 Pos. 19.8 lb
Withdrawal Force (Min.)	.54 oz per contact	.54 oz per contact	.54 oz per contact
APPROVALS	UR	UR	UR

PRESS-FIT PERFORMANCE

C-Press® Straight Tail
Max. insertion force — 40 lbs. (178N)
Min. retention force — 10 lbs. (44N)
Hole deformation — per MIL-STD-2166

Right Angle Press-fit
Max. insertion force — 33 lbs. (150N)
Min. retention force — 6.6 lbs. (30N)
Hole deformation — per MIL-STD-2166

PERFORMANCE LEVELS

Winchester DIN connectors are manufactured to the performance levels prescribed by the standard of DIN 41612, part 5.

Performance Level 1
500 mating cycles total, consisting of:
250 mating cycles/21 days gas test with 10 ppm S02/250 mating cycles.

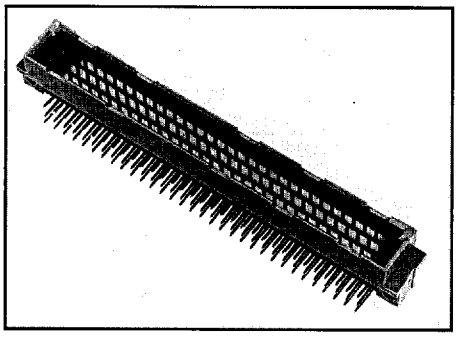
Performance Level 2
400 mating cycles total, consisting of:
200 mating cycles/4 days gas test with 10 ppm S02/200 mating cycles.

Performance Level 3
50 mating cycles, no gas test.

DIN Styles B & C
Standard 41612

6033 Series

Pin Connector

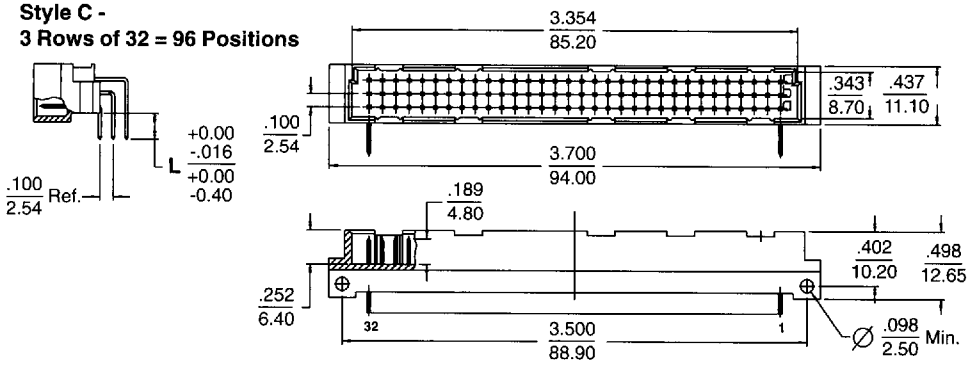


Range of Applications - High Density Telecommunications Data Systems

Commonly referred to as "Standard DIN", this plug and receptacle is a very popular motherboard to daughterboard interconnect. The right angle plug connector is used on the daughterboard and the receptacle is mounted to the motherboard or backpanel. Popularity is reinforced by its characteristics of high density (30 per inch in a 3-row configuration), cost effectiveness (compatible with edgecard), high reliability (serving telecommunications for over 15 years) and standardization (all products conforming to DIN 41612 are intermateable and interchangeable).

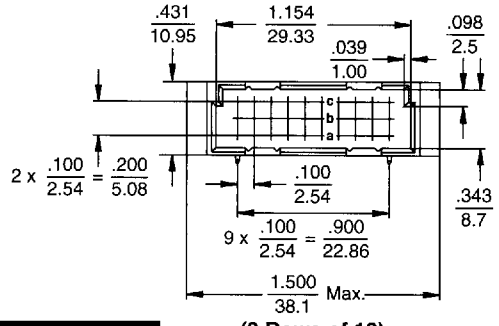
OUTLINE

Style C -
3 Rows of 32 = 96 Positions



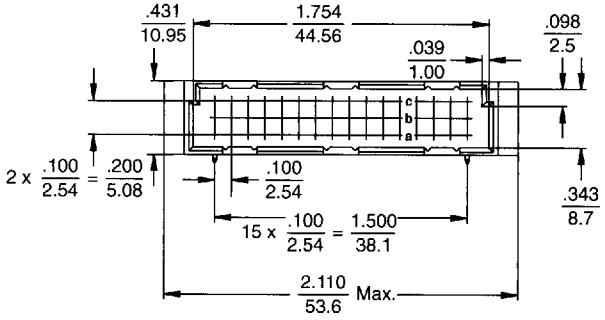
Catalog Number 96P603307310 Shown

Style Third C
3 Rows of 10 = 30 Positions



(3 Rows of 10)

Style Half C
3 Rows of 16 = 48 Positions



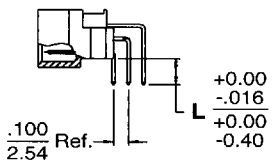
(3 Rows of 16)

TERMINATION TYPES

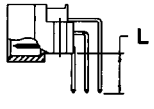
A wide termination selection of solder, wire wrap and compliant pins are available.

DIP solder
termination codes 0 or 4

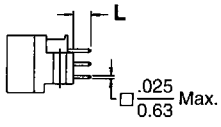
Right-angle press fit
termination code 9



Mini wire wrap
termination codes 6 or 7



Special DIP solder straight tail
termination code 3



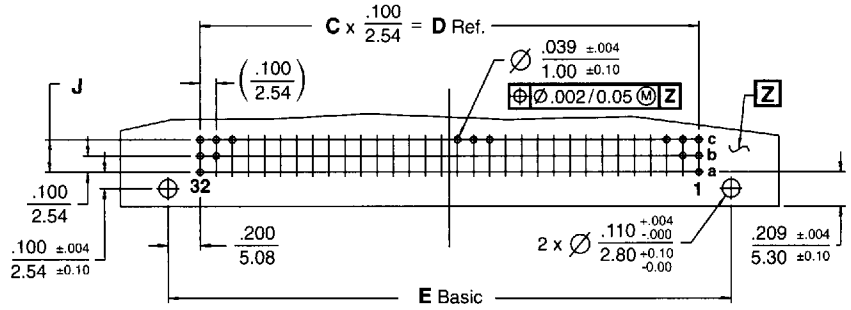
For installation tooling, see page DN / **40**

6033 Series

Hole Pattern

OUTLINE

Series 6033
Pin Connectors

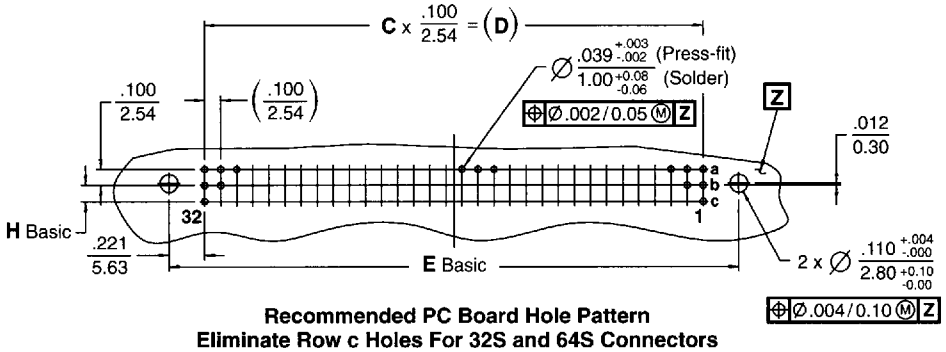


Recommended PC Board Hole Pattern
Eliminate Row c Holes For 32P and 64P Connectors

Contact Termination Code

Catalog Number	C	D	E	J
96P603307310	31	3.100/78.74	3.500/88.90	.200/5.08
64P603307310	31	3.100/78.74	3.500/88.90	—
48P603307310	15	1.500/38.10	1.900/48.26	.200/5.08
32P603307310	15	1.500/38.10	1.900/48.26	—
30P603307310	9	.900/22.86	1.300/33.02	.200/5.08

Series 6033
Socket Connectors



Recommended PC Board Hole Pattern
Eliminate Row c Holes For 32S and 64S Connectors

Contact Termination Code

Catalog Number	C	D	E	H	L
96S603307312	31	3.100/78.74	3.543/90.00	.100/2.54	See Code Order Chart
64S603307312	31	3.100/78.74	3.543/90.00	—	
48S603307312	15	1.500/38.10	1.943/50.00	.100/2.54	
32S603307312	15	1.500/38.10	1.943/50.00	—	
30S603307312	9	.900/22.86	1.343/34.76	.100/2.54	