

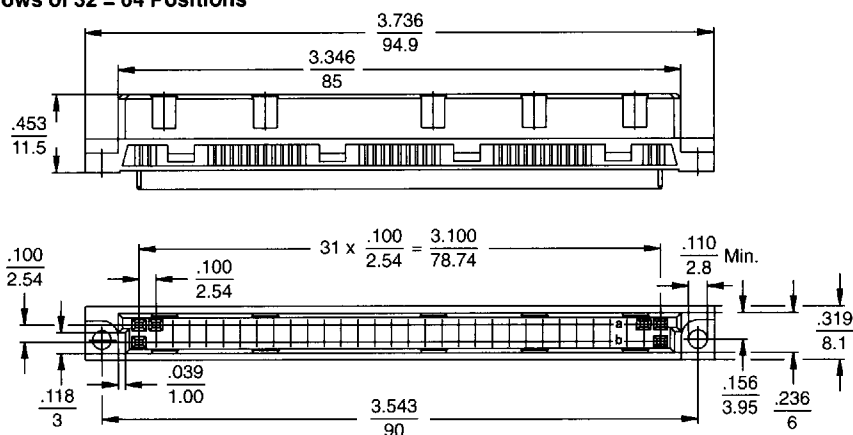
DIN Styles B & C Standard 41612

6033 Series

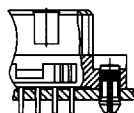
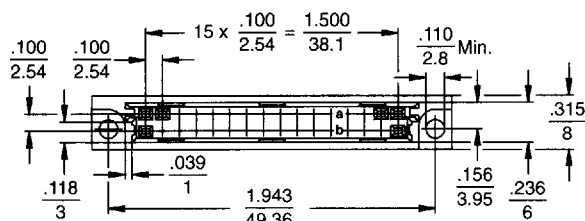
Socket Connector

OUTLINE

Style B 2 Rows of 32 = 64 Positions

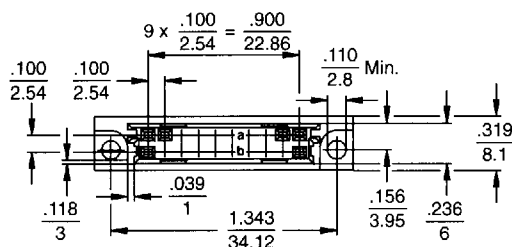


Style Half B 2 Rows of 16 = 32 Positions



P.C.B. Retention Clip
Special Feature $\bigcirc = R$

Third B 2 Rows of 10 = 20 Positions



P.C.B. Retention Tails
Special Feature $\bigcirc = K$

Located in the first and last positions of the outside rows.

ORDERING INFORMATION

Example: 96S-6033-0731-2

96S	6033	07	31	2	$\bigcirc$
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Step 1

Style:

20S = Third B
2 x 10
30S = Third C
3 x 10
32S = Half B
2 x 16
48S = Half C
3 x 16
64S = B-2 x 32
96S = 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
2	L = .157 (4 mm)
4	Solder Eyelet
V	L = .098 (2.5 mm)
Code	Mini Wire Wrap
1	L = .512 (13 mm)
0	L = .669 (17 mm)

Step 6

Special Features:

Code	Options
Blank	No special options
T	P.C.B. retention clip installed for .063(1.60) P.C.B.
R	P.C.B. retention clip installed for .098 (2.49) P.C.B.
K	P.C.B. retention tails

Recognized under the Component Program of Underwriters Laboratories Inc. File No. E136181, to Standard UL 1863



For specifications, see page DN / 1
For P.C. Board hole patterns, see page DN / 42

Winchester Electronics 400 Park Road ■ Watertown, Connecticut ■ 06795-0500 ■ Sales: (860) 945-5000 ■ FAX: (860) 945-5191

DIN

A-61-13

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			
			

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 SO₂/250 mating cycles.

Performance Level 2

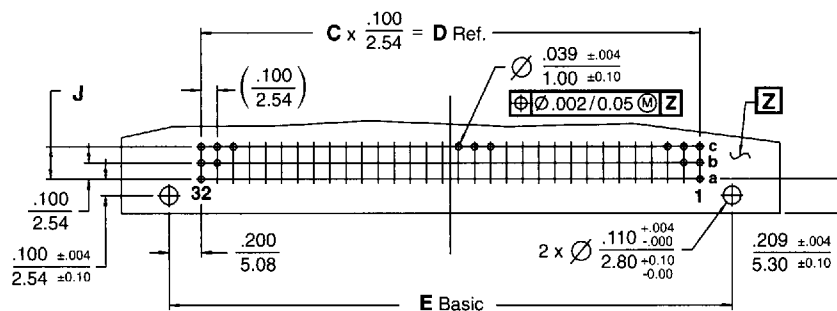
400 mating cycles total, consisting of:
200 mating cycles/4 days gas test with 10 ppm SO₂/200 mating cycles.

Performance Level 3

50 mating cycles, no gas test.

OUTLINE

Series 6033 Pin Connectors

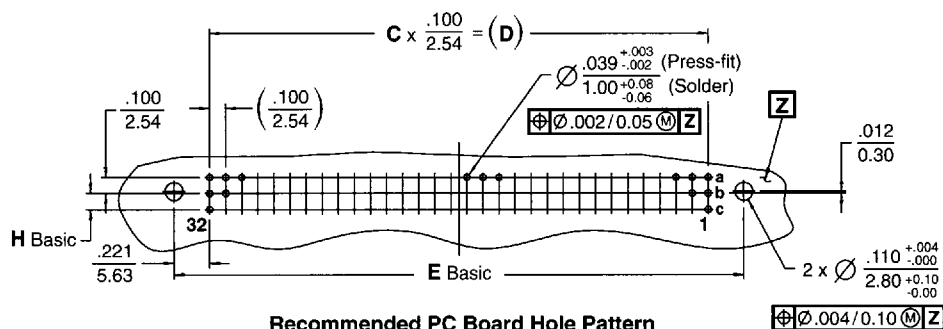


Recommended PC Board Hole Pattern
Eliminate Row c Holes For 32P and 64P Connectors

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	