

NOTES:

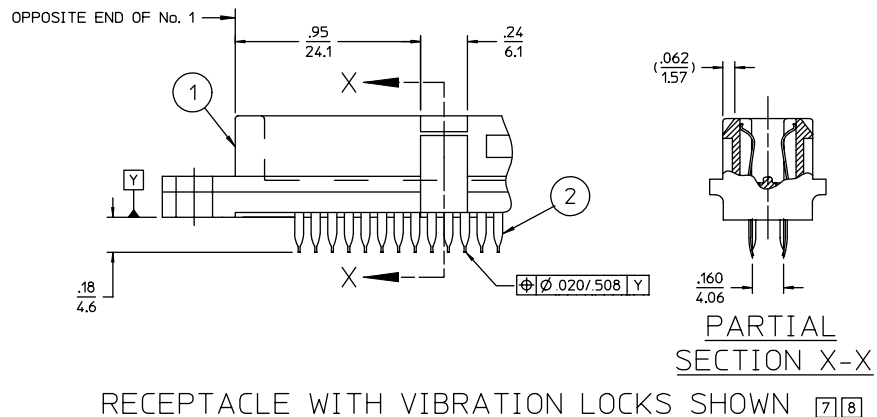
- 4 DIGIT DATE CODE, AND CATALOG No. LOCATED APPROXIMATELY AS SHOWN.
- STEP 5 DOES NOT APPLY TO 84 & 88 SERIES. OMIT STEP 5 ON CATALOG No..
- STEP 6 $\bullet$ = 2 DOES NOT APPLY TO 166 SERIES.
- SERIES:
84 SERIES FOR SMALL C PRESS® WITH $\phi.032\pm.003/0.81\pm0.08$ P.T.H
88 SERIES FOR STANDARD C PRESS® WITH $\phi.040\pm.003/1.02\pm0.08$ P.T.H
166 SERIES FOR SOLDER TAIL WITH $\phi.040\pm.003/1.02\pm0.08$ P.T.H
- 166 SERIES TAILS ARE .010/0.254 X .017/0.432 IN LENGTHS OF .125/3.17 AND .170/4.32.
- INSULATOR AVAILABLE IN BLACK WHEN UTILIZING 166 SERIES DEVIATION 4338.
- AVAILABLE FOR 84 SERIES RECEPTACLE ONLY.
- CUSTOMER TOOLING:

TOOLS

84R SERIES TOOLING

DESCRIPTION	CATALOG No.
INSERTION TOOL	14 POSITION 107-43604-01
	24 POSITION 107-43604-02
	36 POSITION 107-43604-03
	50 POSITION 107-43604-04
CONTACT REMOVAL TOOL	N/A 107-43929
SINGLE CONTACT KNOCK-OUT	N/A 107-42456
INSULATOR REMOVAL	14 & 24 POSITION 107-25875
	36 & 50 POSITION 107-25876

- ADD DEVIATION No. 5422 TO CATALOG No. IF YOU WANT TO HAVE DUST COVERS BULK PACKAGED.
- FOR PLATED THRU HOLE SPECIFICATION SEE DRAWING 27331 FOR $\phi.040/1.02$ P.T.H. & DRAWING 27367 FOR $\phi.032/0.81$ P.T.H.



ORDERING CHART

SPECIFY COMPLETE CONNECTOR BY FOLLOWING INDICATED STEPS

STEP 1 CODE
84 SERIES
88 SERIES
166 SERIES

STEP 2 GRID
INSULATORS FOR .085/2.16 X .160/4.06 GRID ARE BLACK IN COLOR

CODE	DESCRIPTION
11	.085/2.16 X .151/3.83 (PLUG)
	.085/2.16 X .169/4.29 (RECEPTACLE)
12	.085/2.16 X .160/4.06 (P & R)

STEP 3 No. OF CONTACT PAIRS

14	24
36	50

STEP 4 INSULATOR

CODE	DESCRIPTION
P	PLUG
R	RECEPTACLE
V	RECEPTACLE WITH VIBRATION LOCKS [7]

STEP 7 CONTACT PLATING

PLATING CODE	DESCRIPTION	DESCRIPTION
D	30 MICROINCHES GOLD OVER 50 MICROINCHES NICKEL ON CONTACT AREA WITH BRIGHT TIN ON THE C-SECTION	NON- RoHS
C	30 MICROINCHES GOLD OVER 50 MICROINCHES NICKEL ON CONTACT AREA WITH GOLD FLASH ON THE C-SECTION	RoHS
H	30 MICROINCHES GOLD OVER 50 MICROINCHES NICKEL ON CONTACT AREA WITH PURE TIN ON THE C-SECTION	RoHS

STEP 6 INSERTS

CODE	DESCRIPTION
0	NO INSERT
1	#4-40 FLUSH INSERT
2	#4-40 STANDOFF
3	#4-40 TAPPED HOLES [3]

STEP 5 CONTACT TAIL LENGTH (A) [2][5]
FOR 166 SERIES ONLY. NOT FOR 84 & 88 SERIES.

CODE	DESCRIPTION
1	.125/3.17 (FOR .062/1.57 P.C.BOARDS)
2	.170/4.32 (FOR .093/2.36 & .125/3.17 P.C.BOARDS)

SPECIFICATIONS

MATERIALS

- Insulator — Thermoplastic Polyester, glass reinforced Rated UL 94V-0. Color: .085/2.16 X .151/3.83 grid, White .085/2.16 X .169/4.29 grid, White .085/2.16 X .160/4.06 grid, Black
- Standard Contacts — Copper Alloy 725 Plating: Consult Sales Department for Options.
- Dust Cover/Insertion Cap [9] — Thermoplastic Polycarbonate Rated UL 94V-0. Color: Blue (Plug) Red (Receptacle) Not Available For 166 Series & 8412**V3Δ Connectors [8] If Need Consult Sales Department, Cover To Be Used For One Connector Insertion Only.
- Insert & Stand Off — Brass Qty. 2

PERFORMANCE CHARACTERISTICS

Insulation resistance — 5,000 megohms minimum
Dielectric withstanding voltage (at sea level) — 1000 VAC RMS
Current rating — 1 amp @ 70°C
3 amp @ 20°C
Operating temperature range — -55°C to +105°C
Daughter Card — .054/1.37 TO .071/1.80

Compliant Contact 88 & 166 SERIES

Max. Insertion Force (per contact) — 40 lbs./178 N
Min. Retention Force (per contact) — 10 lbs./44 N

Compliant Contact 84 SERIES

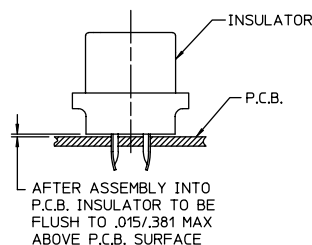
Max. Insertion Force (per contact) — 20 lbs./89 N
Min. Retention Force (per contact) — 5 lbs./22 N

INSERT OPTION

FOR 84, 88 & 166 SERIES
 $\bullet$ = 1

STANDOFF OPTION [3]

FOR 84 & 88 SERIES
 $\bullet$ = 1



PER ASME Y14.5M-1994
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES OR INCHES/MM
TOLERANCES:
DECIMALS .XX ± .02/0.51
.XXX ± .005/0.127
ANGLES ± SCALE: 1:1

CUSTOMER DRAWING

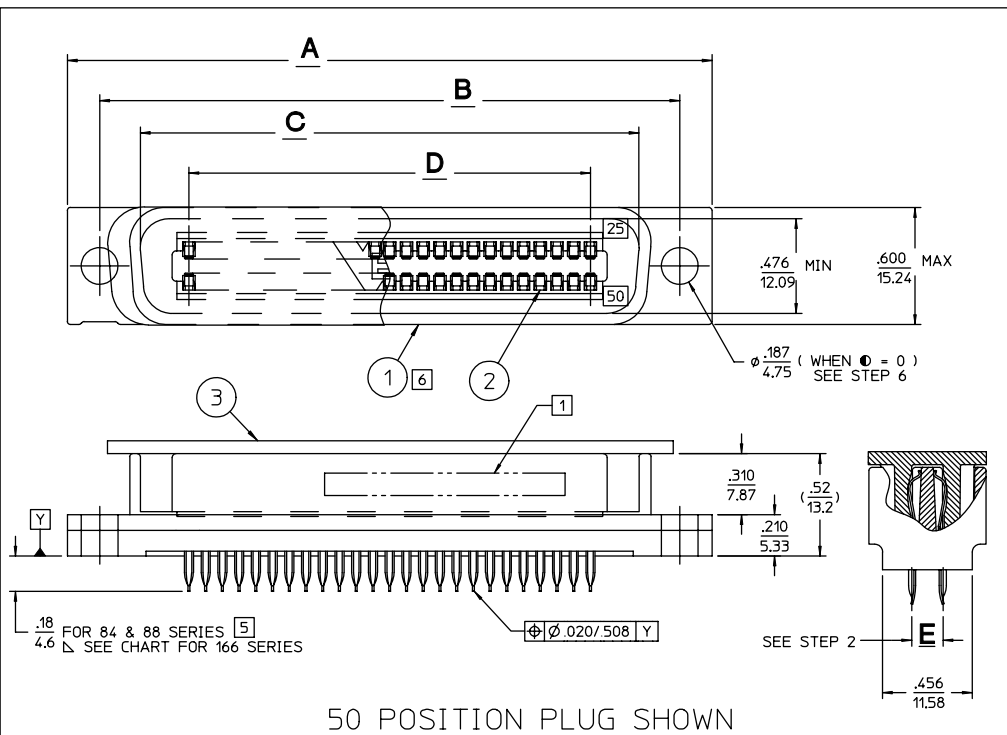
DRAWN DATE APPROVED DATE
J.T.G. 5/3/83 J.A.D. 5/10/83
APPROVED DATE APPROVED DATE
J.A.D. 5/10/83

Winchester Electronics

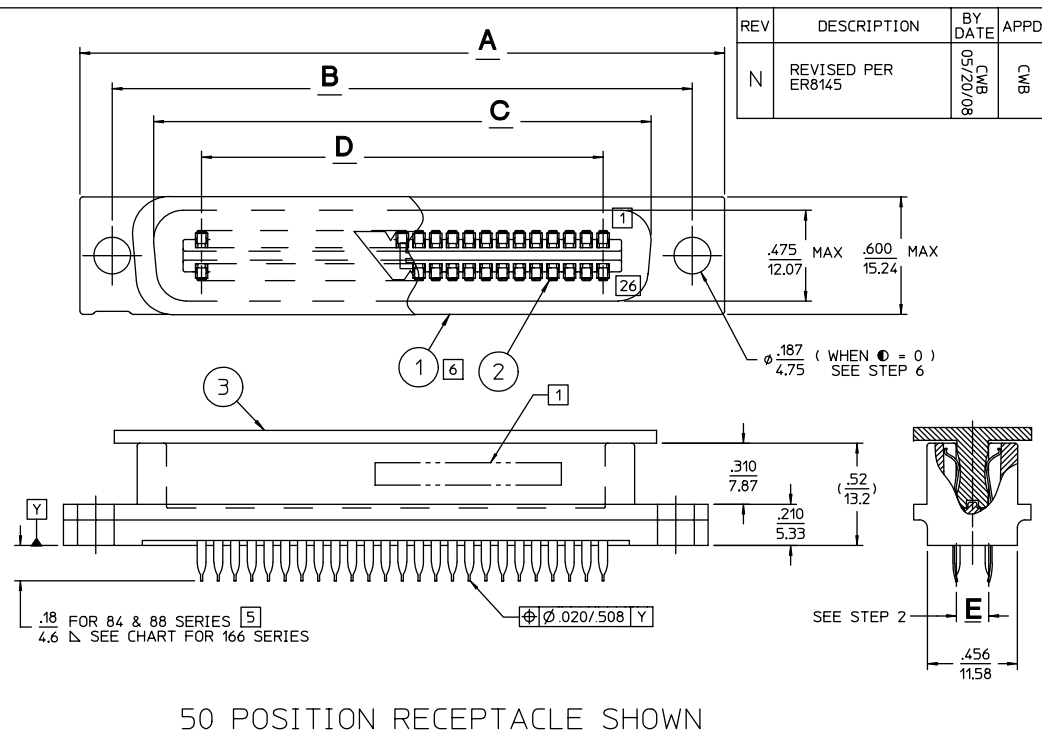
Winchester Electronics Corporation
62 Barnes Industrial Road North
Wallingford, Connecticut 06492

TITLE
C - TEL CONNECTOR
PLUG & RECEPTACLE FOR
84, 88, & 166 SERIES

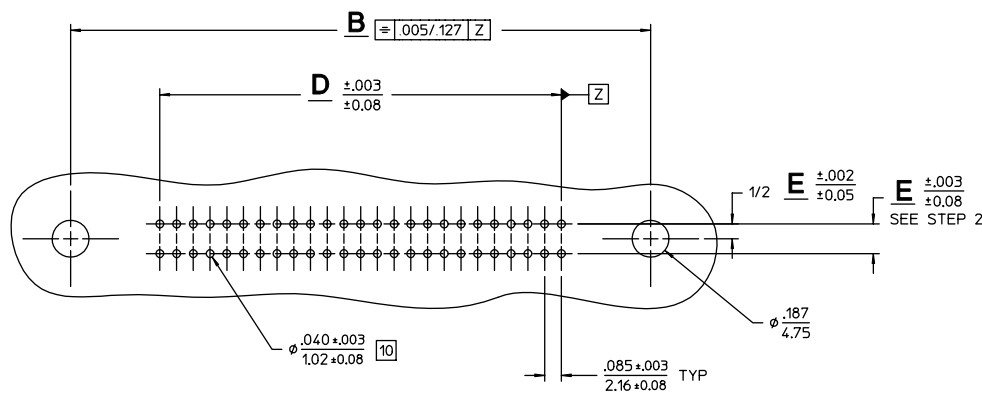
A 23917 SHT. 1 OF 2 REV. N



50 POSITION PLUG SHOWN

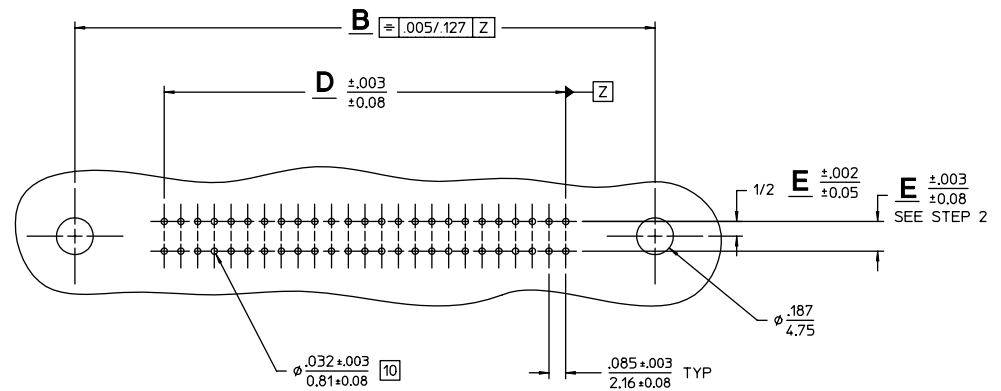


50 POSITION RECEPTACLE SHOWN



P. C. BOARD HOLE PATTERN

84 & 166 SERIES



P. C. BOARD HOLE PATTERN

84 SERIES

50	3.275/83.18	2.947/74.85	2.534/64.36	2.527/64.19	2.040/51.82
36	2.680/68.07	2.352/59.74	1.939/49.25	1.932/49.07	1.445/36.70
24	2.170/55.12	1.842/46.79	1.429/36.30	1.422/36.12	.935/23.75
14	1.745/44.32	1.417/35.99	1.004/25.50	.997/25.32	.510/12.95
No. OF CONTACTS	A	B ±.003 ±0.08	C ±.002 ±0.05 PLUG	C ±.002 ±0.05 RECEPT	D ±.003 ±0.08

PER ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES OR INCHES/MM TOLERANCES: DECIMALS .XX ± .02/0.51 XXX ± .005/0.127 ANGLES ± SCALE: 1:1	
CUSTOMER DRAWING	
DRAWN J.M.G. 10/10/98	DATE 10/28/98
APPROVED DATE	APPROVED DATE

 Winchester Electronics Corporation 62 Barnes Industrial Road North Wallingford, Connecticut 06492	
TITLE C - TEL CONNECTOR PLUG & RECEPTACLE FOR 84, 88, & 166 SERIES	
A	23917
SHT.2 OF 2	REV. M