

NOTES:

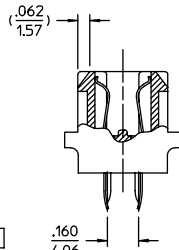
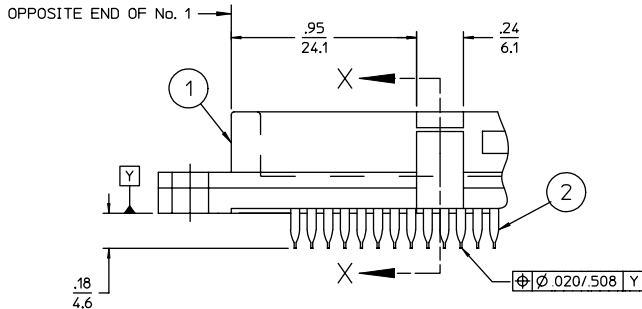
- 1 4 DIGIT DATE CODE, AND CATALOG No. LOCATED APPROXIMATELY AS SHOWN.
- 2 STEP 5 DOES NOT APPLY TO 84 & 88 SERIES. OMIT STEP 5 ON CATALOG No..
- 3 STEP 6 $\bullet = 2$ DOES NOT APPLY TO 166 SERIES.
- 4 SERIES:
84 SERIES FOR SMALL C PRESS® WITH $\phi 0.032 \pm .003 / 0.81 \pm 0.08$ P.T.H
88 SERIES FOR STANDARD C PRESS® WITH $\phi 0.040 \pm .003 / 1.02 \pm 0.08$ P.T.H
166 SERIES FOR SOLDER TAIL WITH $\phi 0.040 \pm .003 / 1.02 \pm 0.08$ P.T.H
- 5 166 SERIES TAILS ARE .1010/0.254 X .017/0.432 IN LENGTHS OF .125/3.17 AND .170/4.32.
- 6 INSULATOR AVAILABLE IN BLACK WHEN UTILIZING 166 SERIES DEVIATION 4338.
- 7 AVAILABLE FOR 84 SERIES RECEPTACLE ONLY.
- 8 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

- 9 ADD DEVIATION No. 5422 TO CATALOG No. IF YOU WANT TO HAVE DUST COVERS BULK PACKAGED.
- 10 FOR PLATED THRU HOLE SPECIFICATION SEE DRAWING 27331 FOR $\phi 0.040 / 1.02$ P.T.H. & DRAWING 27367 FOR $\phi 0.032 / 0.81$ P.T.H.



PARTIAL SECTION X-X

RECEPTACLE WITH VIBRATION LOCKS SHOWN 7 8

ORDERING CHART

SPECIFY COMPLETE CONNECTOR BY FOLLOWING INDICATED STEPS

4 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 7	

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

- 6 1 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
- 2 Standard Contacts — Copper Alloy 725 Plating: Consult Sales Department for Options.
- 3 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.
- 4 Insert & Stand Off — Brass Qty. 2

PERFORMANCE CHARACTERISTICS

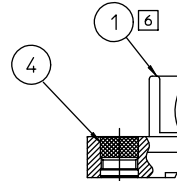
Insulation resistance — 5,000 megohms minimum
 Dielectric withstanding voltage (at sea level) — 1000 VAC RMS
 Current rating — 1 amp @ 70°C
 3 amp @ 20°C
 Operating temperature range — -55°C to +105°C
 Daughter Card — .054/1.37 TO .071/1.80

Compliant Contact 88 & 166 SERIES

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

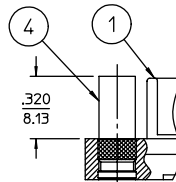
Compliant Contact 84 SERIES

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



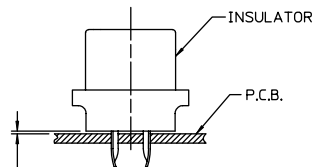
INSERT OPTION

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



STANDOFF OPTION 3

FOR 84 & 88 SERIES
 $\bullet = 1$



AFTER ASSEMBLY INTO P.C.B. INSULATOR TO BE FLUSH TO .015/.381 MAX ABOVE P.C.B. SURFACE

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

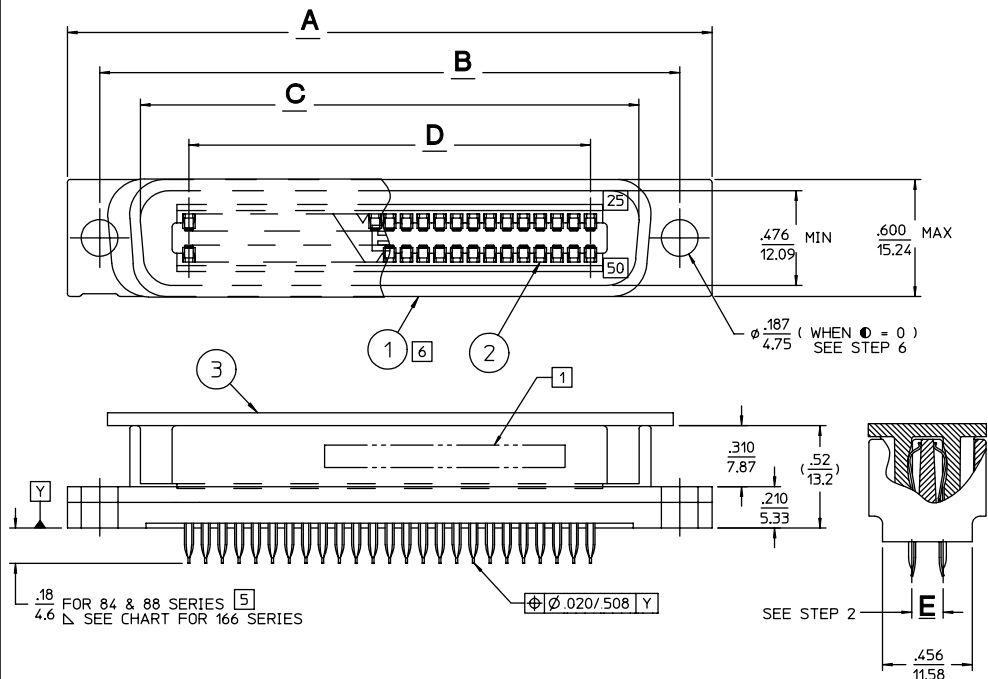


Winchester Electronics Corporation
 62 Barnes Industrial Road North
 Wallingford, Connecticut 06492

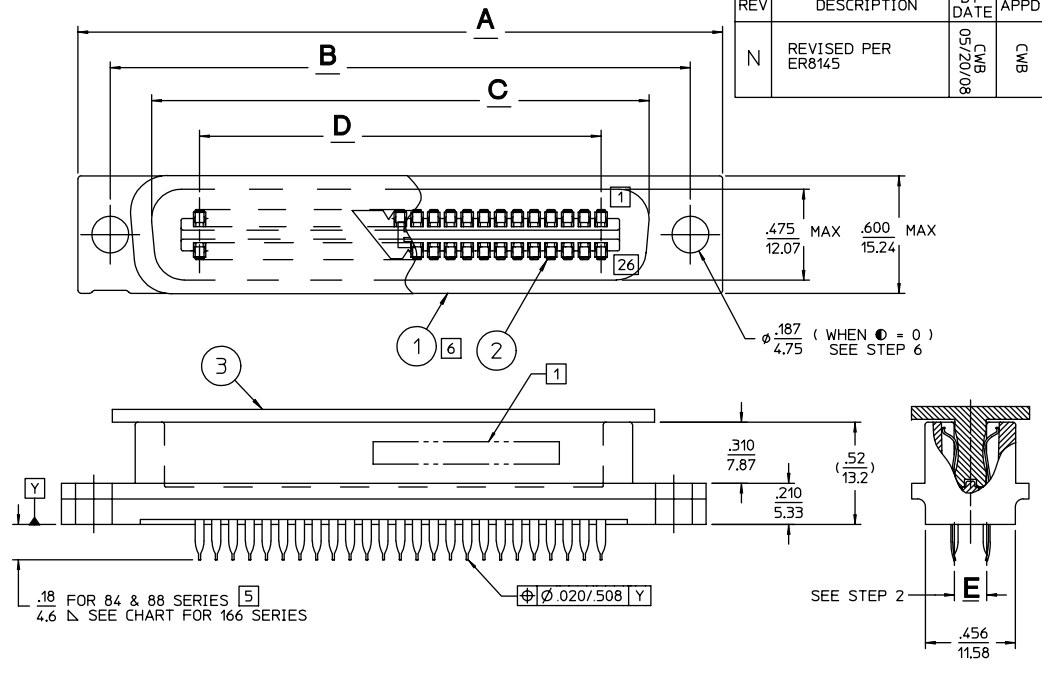
TITLE
 C - TEL CONNECTOR
 PLUG & RECEPTACLE FOR
 84, 88, & 166 SERIES

A	23917	SHT. 1 OF 2	REV. N
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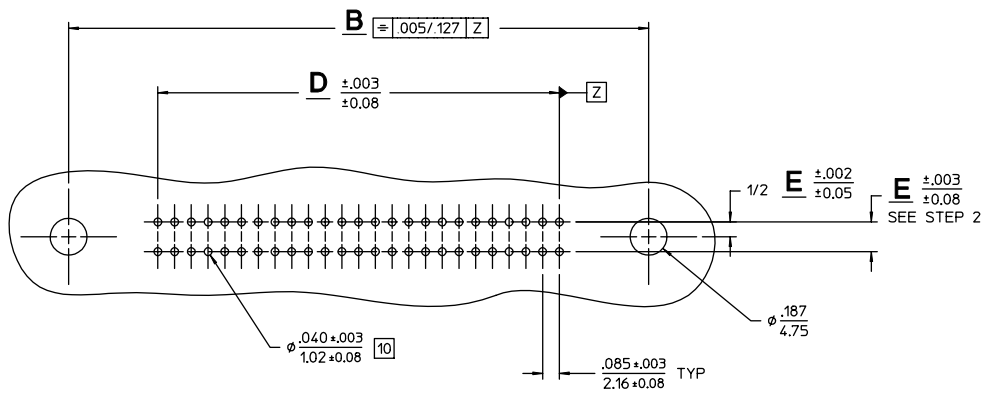
REV	DESCRIPTION	BY DATE	APPD
N	REVISED PER ER8145	CMB 05/20/08	CMB



50 POSITION PLUG SHOWN

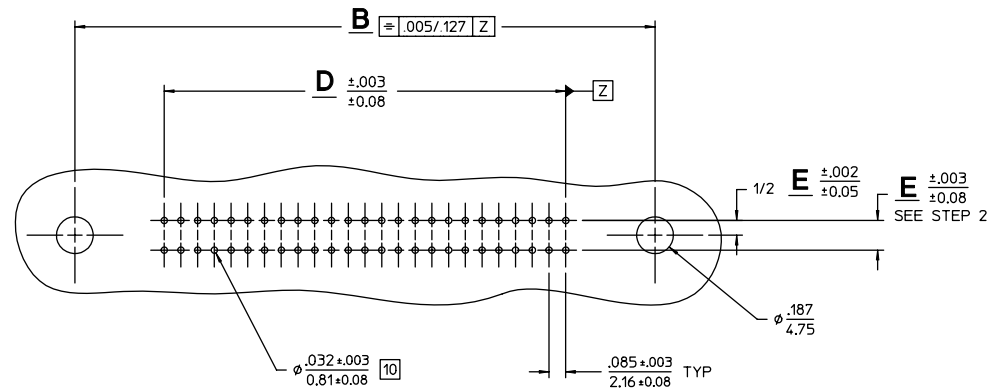


50 POSITION RECEPTACLE SHOWN



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.	DATE 10/10/98	APPROVED L.A.W.	DATE 10/28/98
APPROVED	DATE	APPROVED	DATE

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.2 OF 2	REV. M
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