

NOTES:

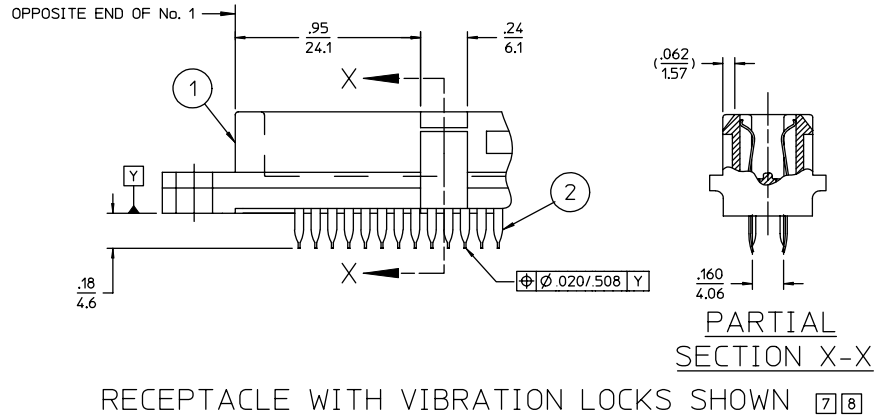
- 1 4 DIGIT DATE CODE, AND CATALOG No. LOCATED APPROXIMATELY AS SHOWN.
- 2 STEP 5 DOES NOT APPLY TO 84 & 88 SERIES. OMIT STEP 5 ON CATALOG No..
- 3 STEP 6 1 = 2 DOES NOT APPLY TO 166 SERIES.
- 4 SERIES:
84 SERIES FOR SMALL C PRESS® WITH $\phi.032 \pm .003 / 0.81 \pm 0.08$ P.T.H
88 SERIES FOR STANDARD C PRESS® WITH $\phi.040 \pm .003 / 1.02 \pm 0.08$ P.T.H
166 SERIES FOR SOLDER TAIL WITH $\phi.040 \pm .003 / 1.02 \pm 0.08$ P.T.H
- 5 166 SERIES TAILS ARE .010/0.254 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 $\phi.040 / 1.02$ P.T.H. & DRAWING 27367 FOR $\phi.032 / 0.81$ P.T.H.



ORDERING CHART

SPECIFY COMPLETE CONNECTOR BY FOLLOWING INDICATED STEPS

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

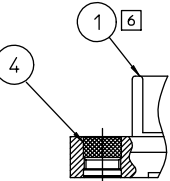
Insulation resistance ——— 5,000 megohms minimum
Dielectric withstanding voltage (at sea level) — 1000 VAC RMS
Current rating ——— 1 amp @ 70°C
3 amp @ 20°C
Operating temperature range ——— -55°C to +105°C
Daughter Card ——— .054/1.37 TO .071/1.80

Compliant Contact 88 & 166 SERIES

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

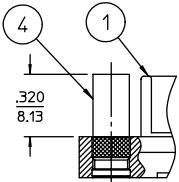
Compliant Contact 84 SERIES

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



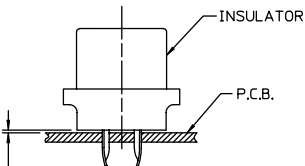
INSERT OPTION

FOR 84, 88 & 166 SERIES
1 = 1



STANDOFF OPTION 3

FOR 84 & 88 SERIES
1 = 1



AFTER ASSEMBLY INTO
P.C.B. INSULATOR TO BE
FLUSH TO .015/3.81 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

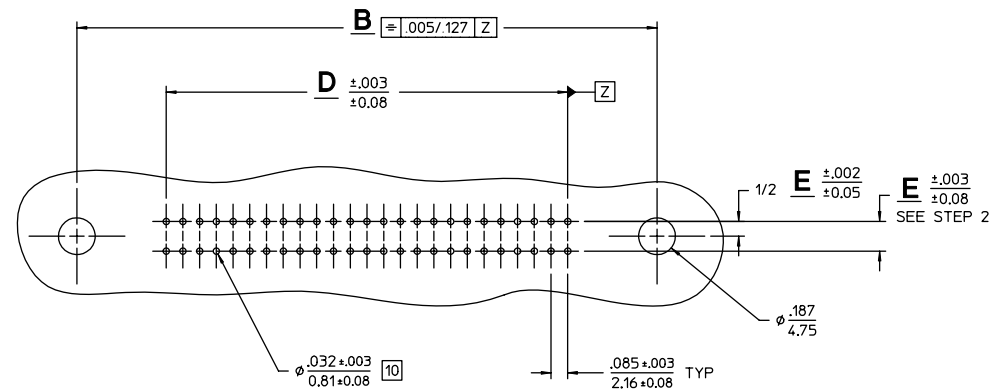
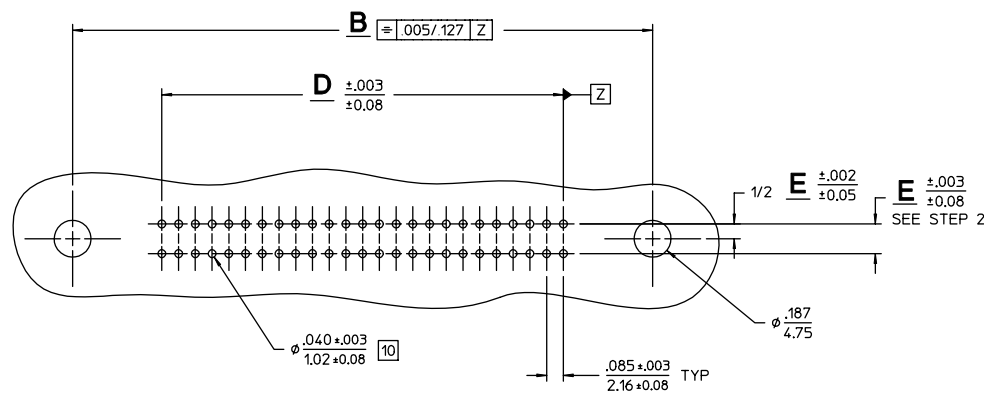
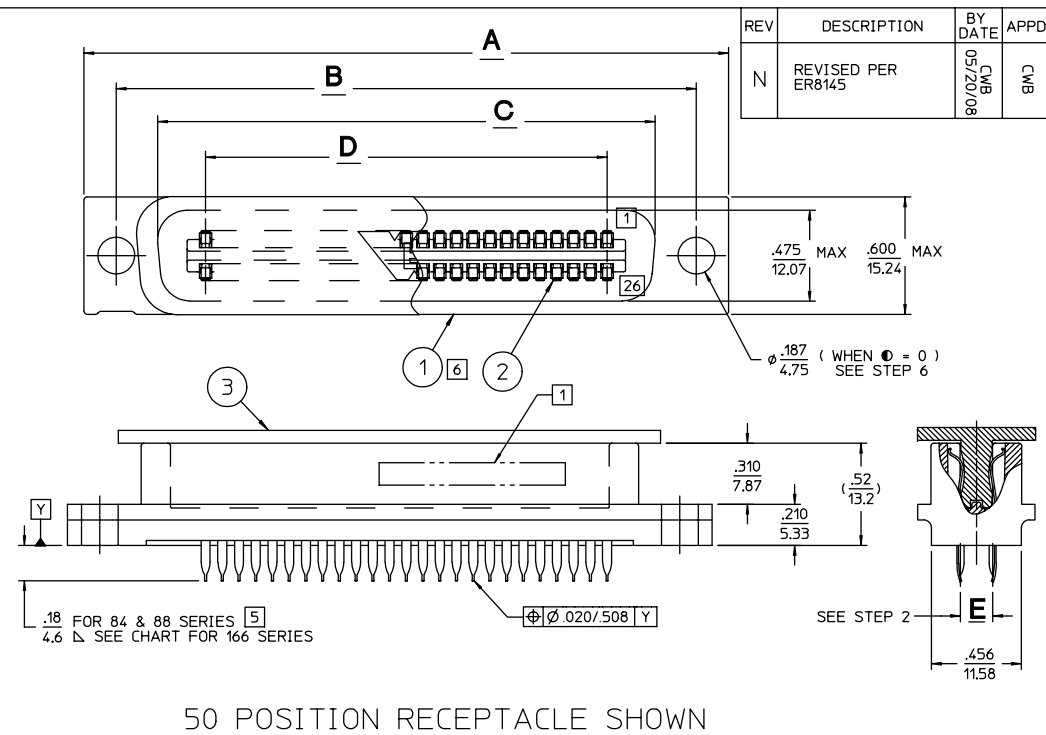
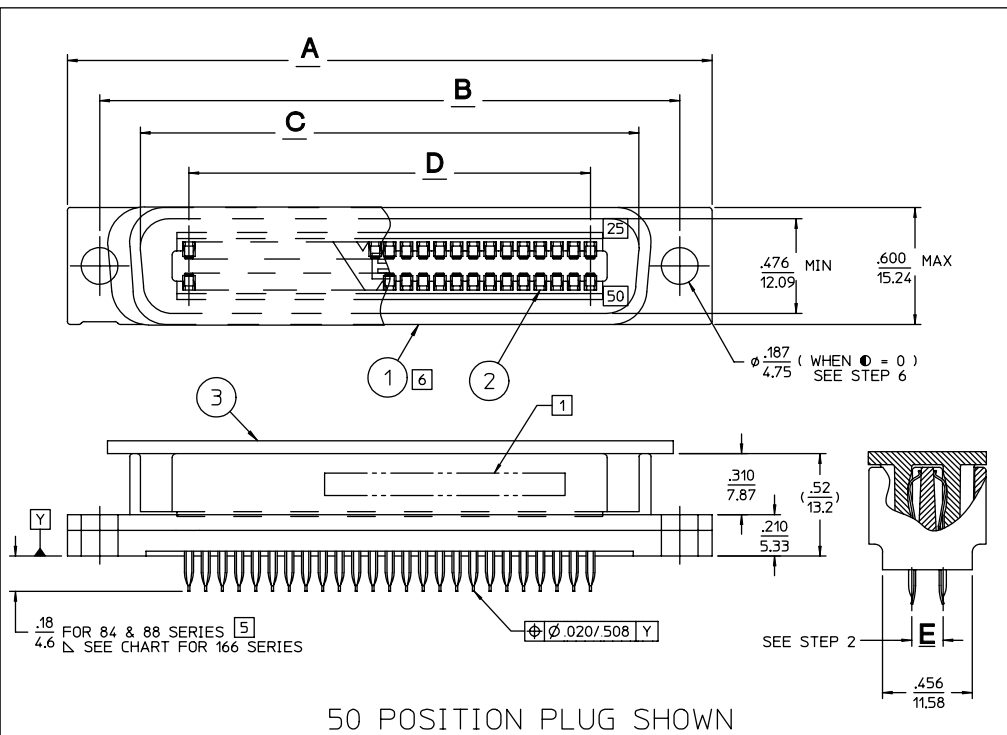
DRAWN DATE APPROVED DATE
J.T.G. 5/3/83 J.A.D. 5/10/83
APPROVED DATE APPROVED DATE
J.A.D. 5/10/83

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	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 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