

NOTES:

- 1 THIS CONNECTOR IS DESIGNED TO MEET THE APPLICABLE PERFORMANCE REQUIREMENTS OF IEC 61076-4-101.
2. DELETED.
3. CONNECTORS ARE END STACKABLE ON A .07874/2.0 GRID.
- 4 FOR COMPLIANT CONTACT PLATED THRU HOLE REQUIREMENTS SEE THRU HOLE PLATING VIEW. MINIMUM P.C. BOARD THICKNESS .062/1.57 NOMINAL.
- 5 DIMENSIONS APPLY AFTER INSTALLATION IN P.C. BOARD.
- 6 .0078/0.2 MAX. GAP PERMISSIBLE TO PC BOARD.
- 7 CONNECTORS WITH TAIL LENGTH CODES C, D, AND E HAVE A MYLAR STRIP ON THE TAILS FOR EASE OF INSTALLATION.
- 8 TELCORDIA (BELLCORE) CERTIFIED LUBRICANT PER GR-1217-CORE.

NX SERIES CODE ORDER CHART – MetCon-2® Backpanel Pin Connectors

REV	DESCRIPTION	BY DATE	APPD
J	REVISED PER ECR# 7997	02/04/04 C.W.B.	LMD

NX5B0AE01
2mm BACKPANEL PIN CONNECTOR WITH 175 COMPLIANT SIGNAL CONTACTS, FULLY LOADED

STEP 1 TAIL LENGTH

CODE	DESCRIPTION	TAIL LENGTH L
7		
A	COMPLIANT SIGNAL, STUBTAIL	.146/3.70
C	COMPLIANT SIGNAL, REAR PLUG-UP	.512/13.00
D	COMPLIANT SIGNAL, REAR PLUG-UP	.571/14.50
E	COMPLIANT SIGNAL, REAR PLUG-UP	.630/16.00

STEP 4 PLATING WITH LUBRICATION

CODE	STEP 1 TAIL LENGTH CODE REQUIRED	PERFORMANCE LEVEL
AA	A	1
CA	C, D, E	

STEP 3 SHIELDING

CODE	DESCRIPTION
0	NO SHIELDING
1	FULLY SHIELDED (PRIMARY SIDE)
4	FULLY SHIELDED (PRIMARY & SECONDARY SIDE - REAR PLUG-UP)

STEP 2 MATING LEVEL (SIGNAL CONTACTS)

CODE	MATING END		DESCRIPTION
	M	P	
1	.209/5.30	.323/8.20	MATING LEVEL 1, ALL POSITIONS
5	.268/6.80	.382/9.70	MATING LEVEL 2, ALL ROWS ALL POSITIONS

SPECIFICATIONS

MATERIALS

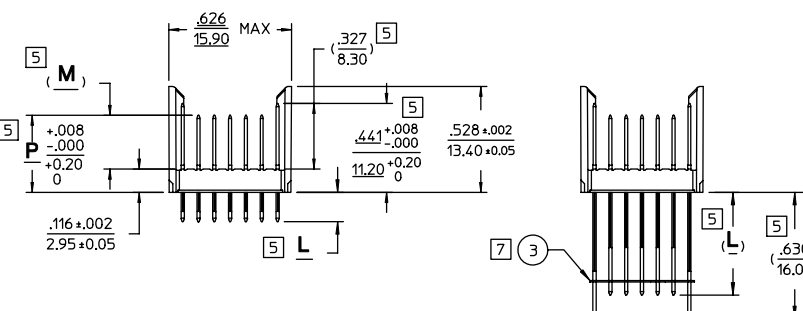
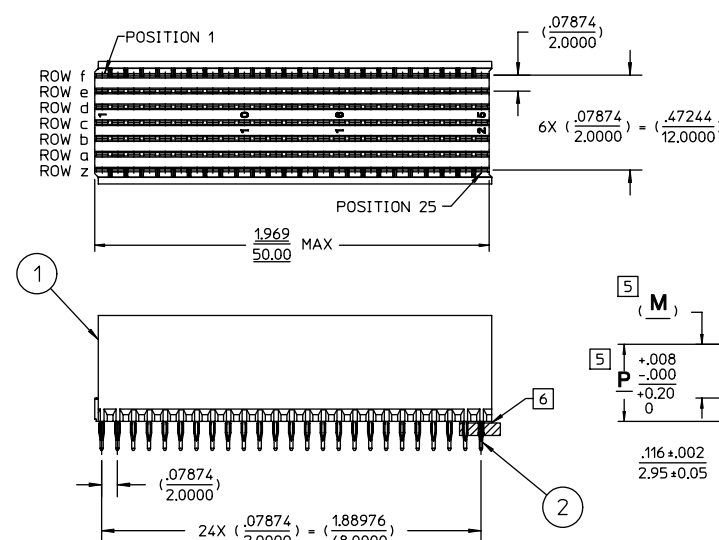
- 1 Insulators — Thermoplastic Polyester, glass filled Rated UL 94V-0. Color: Gray
- 2 Pin contacts — Copper Alloy Finish: Mating Zone = 30µ Gold over Nickel Compliant Zone = Tin/Lead Performance Class 2 = 250 cycles
- 3 Mylar Strip — .0070/0.178 ±.0005/0.013 Thick Mylar (Type D)

PERFORMANCE CHARACTERISTICS 1

Insulation resistance — 5,000 megohms minimum
 Dielectric withstanding voltage (at sea level) — 750 Vrms
 Current rating — 1 amp @ 70°C, fully loaded
 1.5 amp @ 20°C, fully loaded
 Operating temperature range — -55°C to +125°C
 Contact resistance — 20 milliohms minimum
 cUL approved — File E31650

Compliant Contact

Max. Insertion Force (per contact) — 22.5 lbs. / 100 N
 Min. Retention Force (per contact) — 4.5 lbs. / 20 N

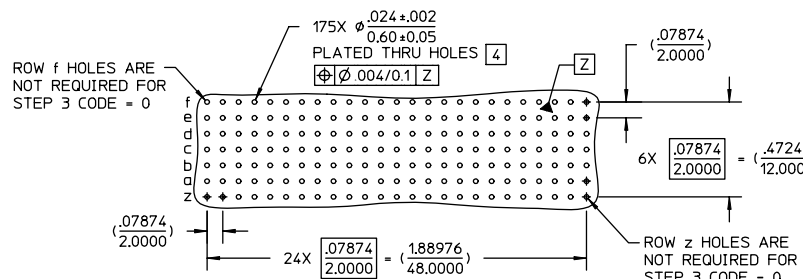


CUSTOMER TOOLING REQUIRED			
DESCRIPTION	SEATING TOOL CATALOG No.	INSTRUCTION SHEET	DRAWING NUMBER
BACKPANEL MODULE TYPE B	107-43897-01	43500	43897
INSERTION UNIT HOLDER 5 + 2 ROW MODULES	107-43901-01	43500	43901
INSERTION TOOL FOR INDIVIDUAL SHIELDING CONTACTS	107-43900-01	43505	43900
INSERTION TOOL FOR INDIVIDUAL CONTACTS	107-43899-01	43504	43899
EXTRACTION TOOL FOR INDIVIDUAL CONTACTS	107-43898-01	43503	43898

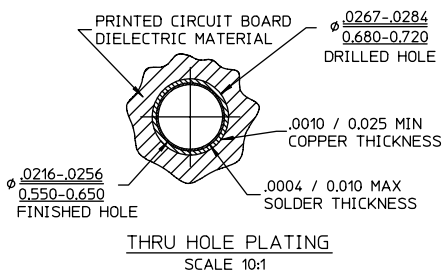
CATALOG No. NX5B0AE01A51AA SHOWN

CATALOG No. NX5B0AE01C54CA SHOWN

(REAR PLUG-UP APPLICATION SHOWN)
 SAME AS NX5B0AE01A51AA EXCEPT AS SHOWN



RECOMMENDED PC BOARD REQUIREMENTS
 (COMPONENT SIDE OF BOARD SHOWN)



PER ASME Y14.5M-1994
 UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES OR INCHES/MM
 TOLERANCES:
 DECIMALS .XX ± .02/0.5
 .XXX ± .004/0.10
 ANGLES ± -- SCALE: 1:1

NORTHROP GRUMMAN

Winchester Electronics

82 Barnes Industrial Road North
 Wallingford, CT 06492

CUSTOMER DRAWING



TITLE
 MetCon-2® NX5 SERIES
 BACKPANEL CONNECTORS
 MODULE STYLE B

DRAWN	DATE	APPROVED	DATE
C.W.B.	03/10/99	W.P.M.	04/19/99
APPROVED	DATE	APPROVED	DATE
A.E.E.	04/19/99	S.W.A.	04/19/99

A	29602	SHT. 1 of 1	REV. J
----------	-------	-------------	--------