

REV	DESCRIPTION	BY DATE	APPD
E	REVISED PER ECR# 7997	C.W.B. 02/09/04	LMD

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

NX5ABAE01

2mm BACKPANEL AB25 STYLE PIN CONNECTOR WITH 125 COMPLIANT SIGNAL CONTACTS, 44 GROUND SHIELD CONTACTS, FULLY LOADED

STEP 1 TAIL LENGTH

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

STEP 4 PLATING WITH LUBRICATION [7]

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

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 P.C. BOARD.
- [7] TELCORDIA (BELCORE) CERTIFIED LUBRICANT PER GR-1217-CORE.

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

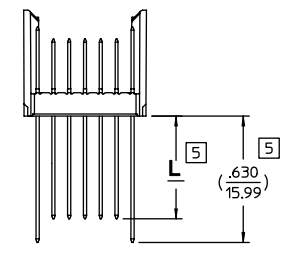
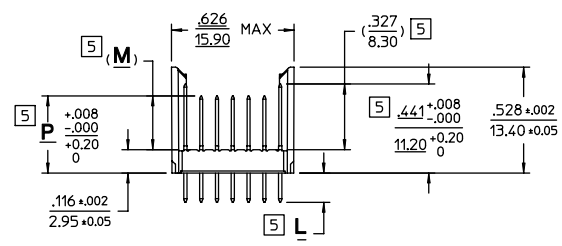
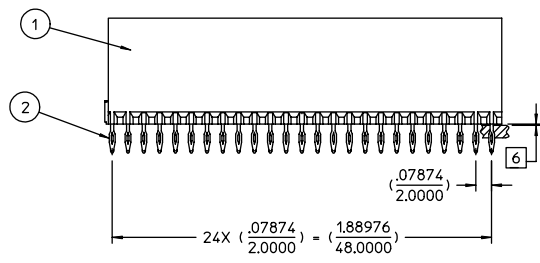
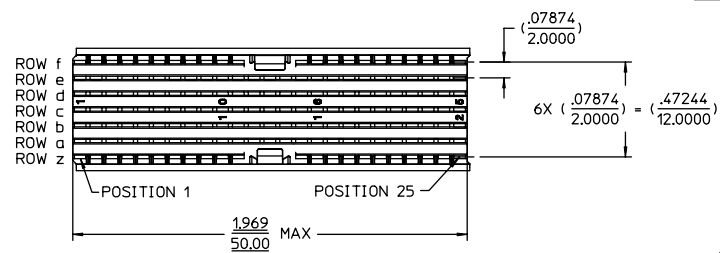
PERFORMANCE CHARACTERISTICS [1]

- 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

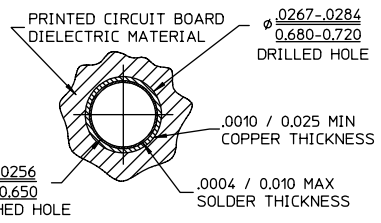
- Max. Insertion Force (per contact) ————— 22.5 lbs. / 100 N
- Min. Retention Force (per contact) ————— 4.5 lbs. / 20 N

CUSTOMER TOOLING REQUIRED			
DESCRIPTION	SEATING TOOL CATALOG No.	INSTRUCTION SHEET	DRAWING NUMBER
BACKPANEL MODULE TYPE AB	107-43976-02	43500	43976
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

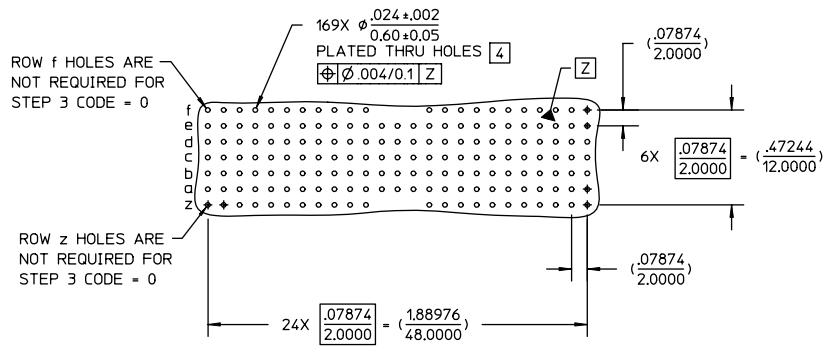


CATALOG No. NX5ABAE01A51AA SHOWN

CATALOG No. NX5ABAE01C54CA SHOWN
(REAR PLUG-UP APPLICATION SHOWN)
SAME AS NX5ABAE01A51AA EXCEPT AS SHOWN



THRU HOLE PLATING
SCALE 10:1



RECOMMENDED PC BOARD REQUIREMENTS
(COMPONENT SIDE OF BOARD SHOWN)

PER ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES OR MM			
TOLERANCES: .MM			
DECIMALS .XX ± .02/0.5			
.XXX ± .004/0.10			
ANGLES ± °		SCALE: 1:1	
CUSTOMER DRAWING			
DRAWN	DATE	APPROVED	DATE
C.W.B.	03/08/00	WPM	04/18/00
APPROVED	DATE	APPROVED	DATE
AEE	04/18/00	NMcKEEIN	04/18/00

NORTHROP GRUMMAN

Winchester Electronics

82 Barnes Industrial Road North
Wallingford, CT 06492

TITLE

MetCon-2® NX5 SERIES
BACKPANEL CONNECTOR
MODULE STYLE AB

DRAWN	DATE	APPROVED	DATE
A	29715	SHT. 1 of 1	REV. E