

Performance

N SERIES SPECIFICATIONS:

Contact Rating:	1 amperes maximum.
Solderability:	Terminals, except crimp, tested in accordance with Method 208 MIL-STD-202.
Wire Size:	Stranded #30 & #32 AWG or solid #30 AWG standard (consult factory for other sizes and types).
Test Voltage:	250 V, RMS, 60 Hz.
Operating Temperature:	-55 degree C to +125 degree C.
Insulation Resistance:	5000 megohms minimum at 100 vdc.
Durability:	200 connector mating cycles.
Vibration:	Tested in accordance with Method 2005, Condition IV, of MIL-STD-1344.
Shock:	Tested in accordance with Method 2004, Condition G, of MIL-STD-1344.
Salt Spray:	Mated connectors tested in accordance with Method 1001, Test Condition B of MIL-STD-1344.
Humidity:	Mated connectors tested in accordance with Method 1002, Type II, of MIL-STD-1344 (except steps 7a and 7b).
Thermal Shock:	Tested to the temperature extremes of Method 1003, Test Condition A of MIL-STD-1344 (except step 3, temperature shall be 125° C).
Contact Resistance:	0.071-volt maximum drop @ 1.0 amps (.071 ohms).
Contact Engaging Force:	5.0-ounce maximum, with minimum diameter test sleeve.
Contact Separating Force:	0.4-ounce minimum, with maximum diameter test sleeve.
Crimp Strength:	1.0-pound minimum tensile strength.

Specifications

Materials and Finish

Contacts:	Pins: BeCu alloy strip per IAW ASTM-B-194. Sockets: BeCu or NiAg per IAW ASTM-B-194.
Embedment:	Insulating compound per MIL-I-16923.
Contact Finish:	Gold plate per MIL-G-45204.
Molded Insulators:	Glass filled LCP per MIL-M-24519.
Hardware:	Corrosion-resistant steel in accordance with ASTM-A-582, passivated in accordance with ASTM-A-967.
Tolerances:	Unless otherwise specified: Decimals = $\pm .005$ "; Angles = ± 2 degrees ; Wire Lengths: Insulated stranded + 1.0" - 0.0"; Uninsulated solid + 0.2" - 0.0".

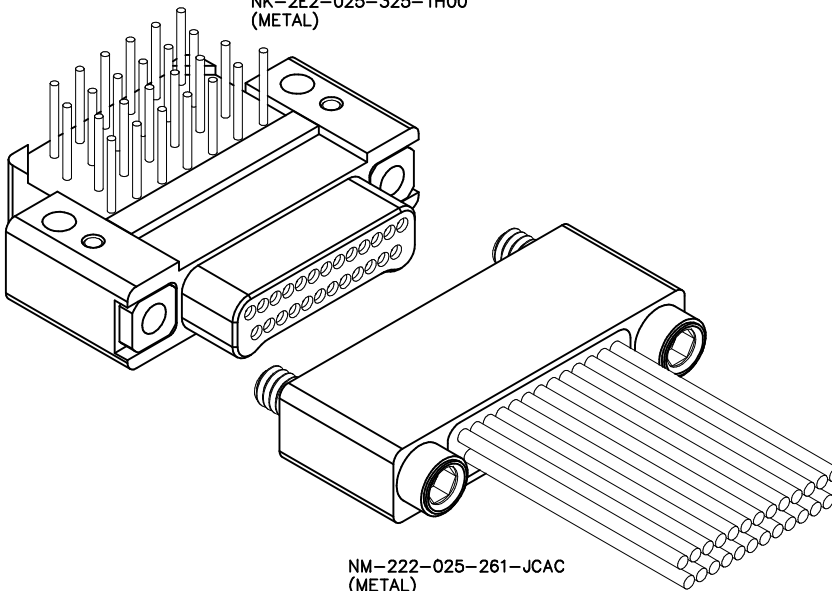
2 • ROW Cable to Board Right Angle PTH

.025"

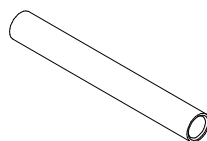
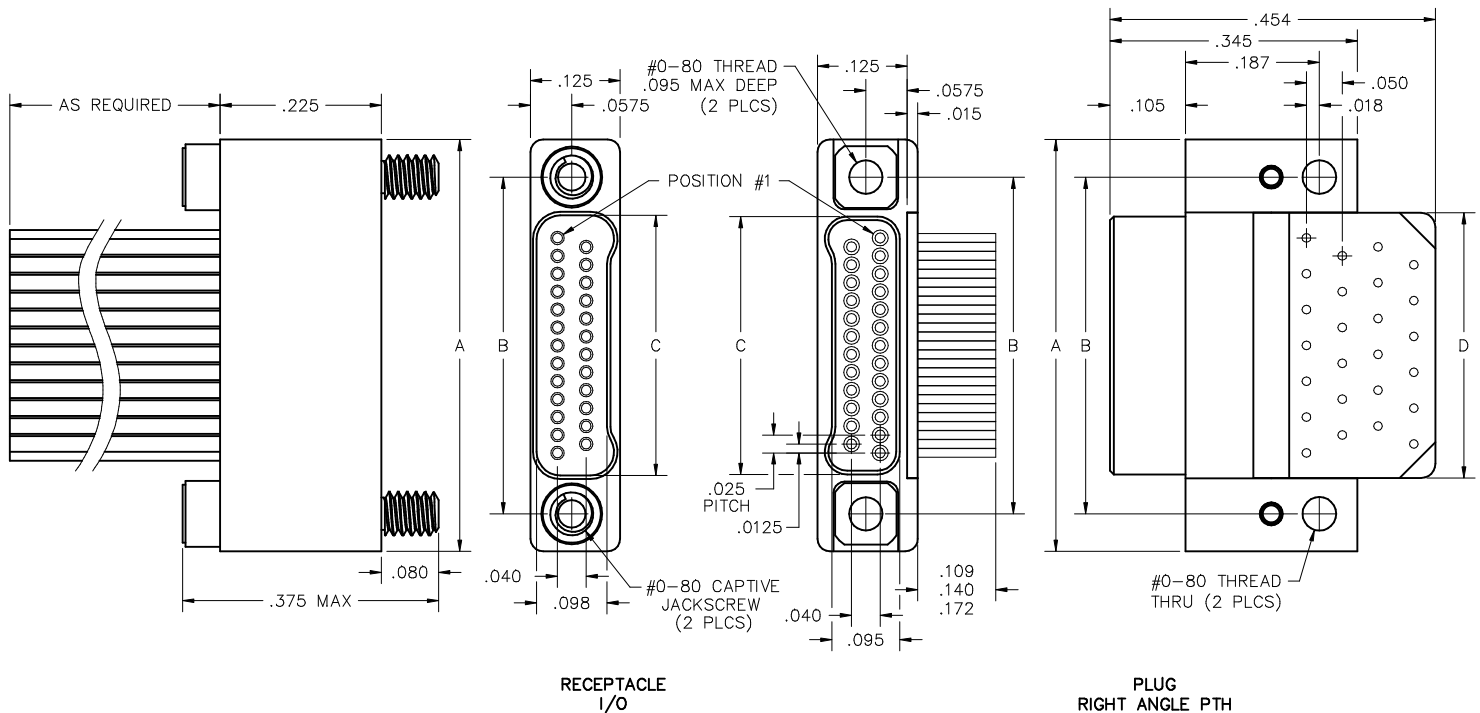
NM, NK

9 thru 51 Contacts

NK-2E2-025-325-TH00
(METAL)

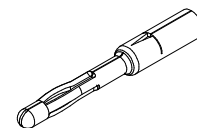


NM-222-025-261-JCAC
(METAL)



SOCKET CONTACT
DRAWN TUBE, CRIMP

DIMENSIONS					
SIZE	ROWS	A	B	C	D
9	2	.375	.270	PLUG .160	RCPT .163 .170
15		.450	.345	.235	.238 .245
21		.525	.420	.310	.313 .320
25		.575	.470	.360	.363 .370
31		.650	.545	.435	.438 .445
37		.725	.620	.510	.513 .520
51		.900	.795	.685	.688 .695
65		1.075	.970	.860	.863 .870
69		1.125	1.020	.910	.913 .920



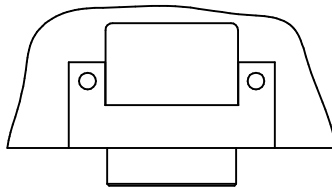
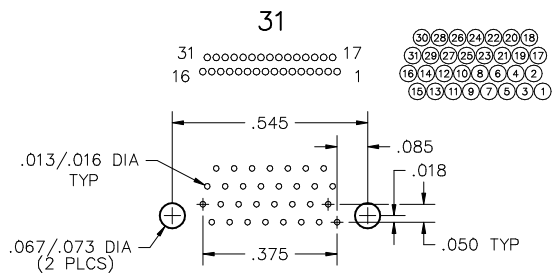
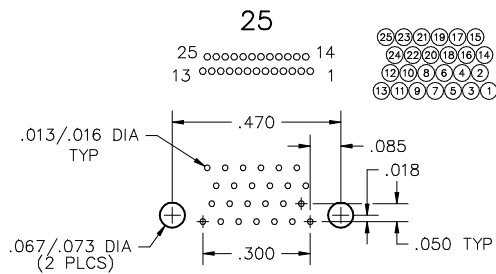
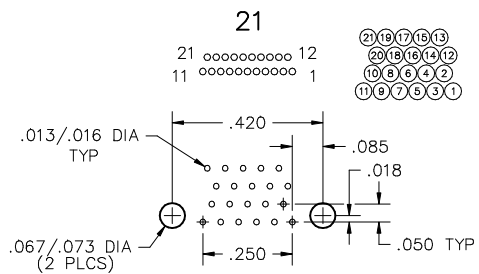
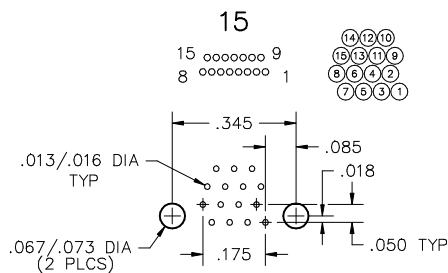
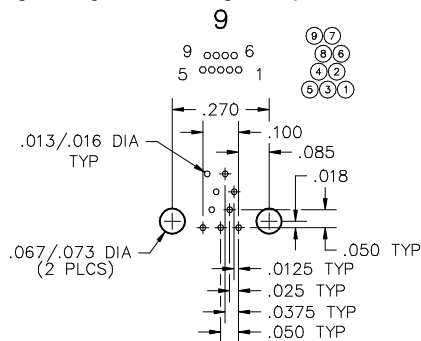
PIN CONTACT
3 TIME SPRING MEMBER, CRIMP



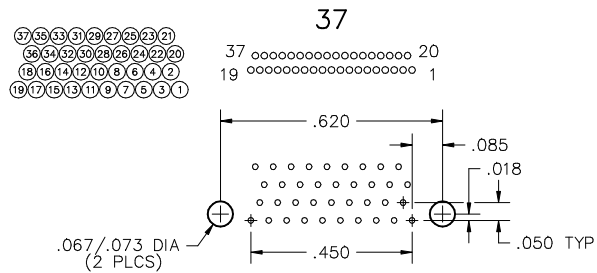
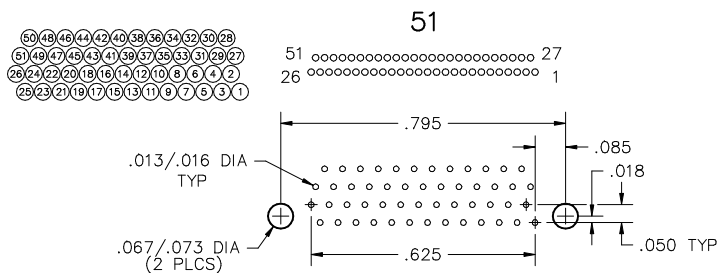
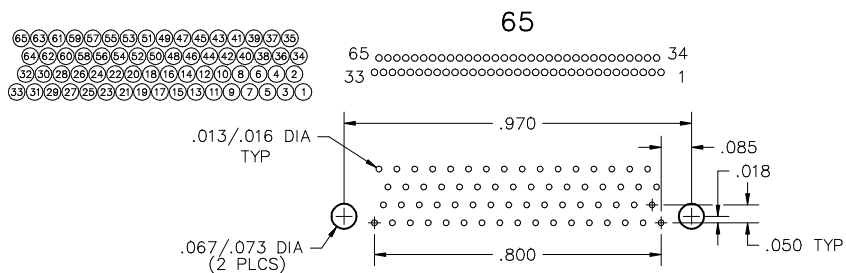
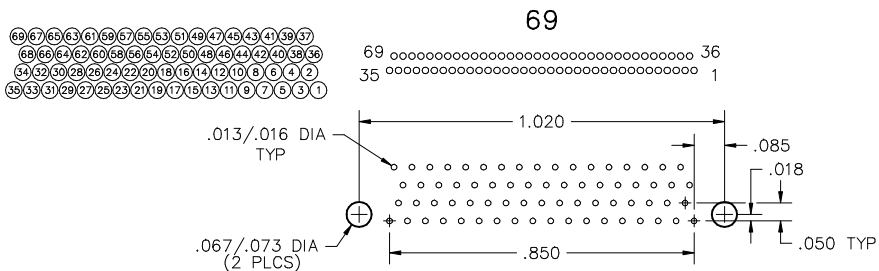
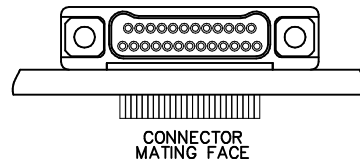
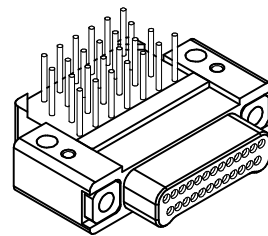
THE CONNECTOR COMPANY

Recommended PC Board Layout

Right Angle PTH Plug Footprint



PC BOARD LAYOUT COMPONENT SIDE



AirBorn Standard Nano Wiring Codes (In accordance with MIL-W-16878)

<u>WIRE CODE</u>	<u>WIRE SIZE</u>	<u>WIRE TYPE</u>	<u>WIRE COLOR</u>	<u>WIRE LENGTH</u> (Stranded: +1.0"/-0.0")
AA	30 AWG	TFE 7-strand	Per MIL-STD-681	6.0
AB	30 AWG	TFE 7-strand	Per MIL-STD-681	12.0
AC	30 AWG	TFE 7-strand	Per MIL-STD-681	18.0
AD	30 AWG	TFE 7-strand	Per MIL-STD-681	36.0
AE	30 AWG	TFE 7-strand	White	6.0
AF	30 AWG	TFE 7-strand	White	12.0
AG	30 AWG	TFE 7-strand	White	18.0
AH	30 AWG	TFE 7-strand	White	36.0
AJ	30 AWG	TFE 7-strand	Yellow	6.0
AK	30 AWG	TFE 7-strand	Yellow	12.0
AL	30 AWG	TFE 7-strand	Yellow	18.0
AM	30 AWG	TFE 7-strand	Yellow	36.0
AN	32 AWG	TFE 7-strand	Per MIL-STD-681	6.0
AP	32 AWG	TFE 7-strand	Per MIL-STD-681	12.0
AQ	32 AWG	TFE 7-strand	Per MIL-STD-681	18.0
AR	32 AWG	TFE 7-strand	Per MIL-STD-681	36.0
AS	32 AWG	TFE 7-strand	White	6.0
AT	32 AWG	TFE 7-strand	White	12.0
AU	32 AWG	TFE 7-strand	White	18.0
AV	32 AWG	TFE 7-strand	White	36.0
AW	32 AWG	TFE 7-strand	Yellow	6.0
AX	32 AWG	TFE 7-strand	Yellow	12.0
AY	32 AWG	TFE 7-strand	Yellow	18.0
AZ	32 AWG	TFE 7-strand	Yellow	36.0
BA	34 AWG	TFE 7-strand	Per MIL-STD-681	6.0
BB	34 AWG	TFE 7-strand	Per MIL-STD-681	12.0
BC	34 AWG	TFE 7-strand	Per MIL-STD-681	18.0
BD	34 AWG	TFE 7-strand	Per MIL-STD-681	36.0
BE	34 AWG	TFE 7-strand	White	6.0
BF	34 AWG	TFE 7-strand	White	12.0
BG	34 AWG	TFE 7-strand	White	18.0
BH	34 AWG	TFE 7-strand	White	36.0
BJ	34 AWG	TFE 7-strand	Yellow	6.0
BK	34 AWG	TFE 7-strand	Yellow	12.0
BL	34 AWG	TFE 7-strand	Yellow	18.0
BM	34 AWG	TFE 7-strand	Yellow	36.0

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