

NO. OF CONTACTS	A	B	C	D	E
9	.375	.270	.100	.125	.0575
15	.450	.345	.175		
21	.525	.420	.250		
25	.575	.470	.300		
31	.650	.545	.375		
37	.725	.620	.450		
51	.900	.795	.625		
65	1.075	.970	.800	.150	.070
69	1.125	1.020	.850		
85	1.377	1.246	1.050		
91	1.452	1.321	1.125		

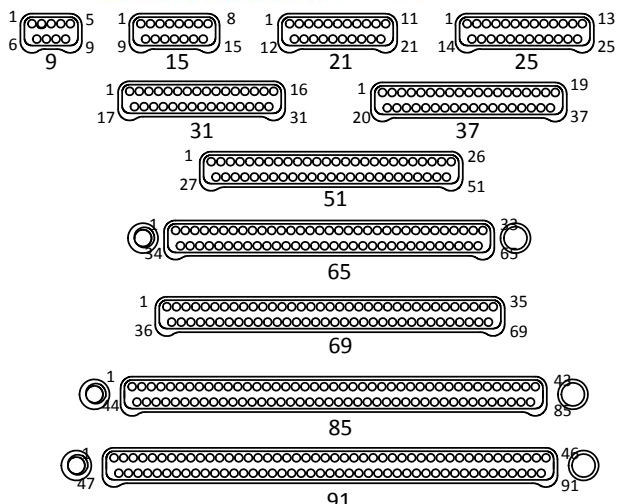
TOLERANCE: .XXX ±.005
.XX ±.01
ANGLE ±1°

TITLE **NANO METAL SHELL
DUAL ROW
WITH LEADS**

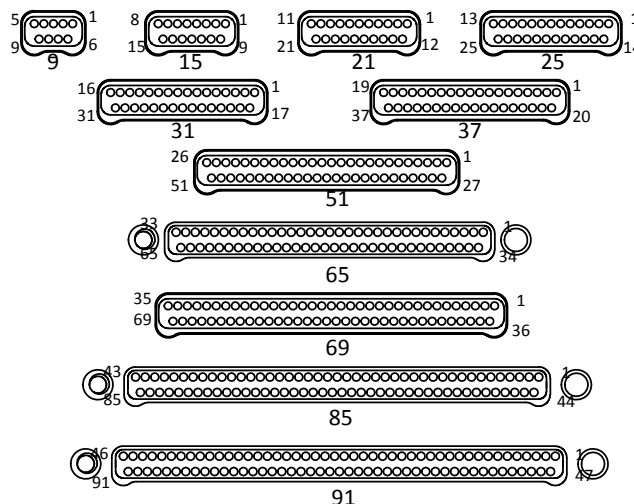
SHT 1 OF 2

DWG. NO. **CMN2**

REV **J**



PLUG MATING FACE



RECEPTACLE MATING FACE

CMN 2 - XX X - X X X X X X X

NANO METAL SHELL WITH LEADS

BODY STYLE
2 = DUAL ROW

NUMBER OF CONTACTS
09 25 51 85
15 31 65 91
21 37 69

GENDER
P = PLUG, PIN CONTACTS
S = RECEPTACLE, SOCKET CONTACTS

HARDWARE
0 = NONE $\phi .070 \pm .002$ THRU HOLE ONLY
($\phi .096/.088$ FOR SIZES 85 & 91)
J = #0-80 JACKSCREW (CAPTURED)
(#2-56 FOR SIZES 85 & 91)
T = #0-80 THREADED HOLE
(#2-56 FOR SIZES 85 & 91)

SHELL FINISH
ALUMINUM
A = CADMIUM
B = NICKEL
C = ZINC-NICKEL
G = GOLD
STAINLESS STEEL
P = PASSIVATE
TITANIUM
T = TITANIUM (FINISH N/A)

* = MOST COMMONLY USED & STOCKED WIRE TYPES AND HARDWARE OPTIONS

WIRE LENGTH
STRANDED (+1.00 / -0.00)
1 = 6 INCHES
2 = 12 INCHES
3 = 18 INCHES
4 = 24 INCHES
5 = 36 INCHES
6 = 72 INCHES
SOLID COPPER (+0.20 / -0.00)
30 AWG
1 = 0.5 INCH
2 = 1.0 INCH
3 = 0.25 INCH

WIRE SIZE
0 = 32 AWG STRANDED/30 AWG SOLID
1 = 30 AWG STRANDED

WIRE COLOR/TYPE
0 = WHITE *
1 = YELLOW
2 = 10 SOLID COLORS REPEATED *
3 = FULL COLOR CODE
9 = SOLID COPPER *

TERMINATION
WIRE TYPE
STRANDED
H = HARNESS (NEMA HP3-ETXB) *
S = SPACE M22759/33
M = 04047-30A
SOLID
G = GOLD PLATED COPPER
T = TIN/LEAD PLATED COPPER

MATERIALS AND FINISHES ARE IAW MIL-DTL-32139.
FOR DETAILS SEE MIL-SPEC OR WWW.CRISTEK.COM

1. MATERIALS:
SHELL - ALUMINUM ALLOY, STAINLESS STEEL OR TITANIUM
INSULATOR - LIQUID CRYSTAL POLYMER OR GLASS FILLED
THERMOPLASTIC
CONTACT - COPPER ALLOY

2. FINISH:
SHELL - ELECTROLESS NICKEL OR CADMIUM OVER
ELECTROLESS NICKEL OR PASSIVATE OR GOLD
OR ZINC-NICKEL
CONTACT - GOLD OVER NICKEL

3. SPECIFICATIONS:
CURRENT RATING ----- 1 AMP MAX
TEMPERATURE RATING ----- 55° C TO +125° C
INSULATION RESISTANCE ----- 5000 MEGOHMS
DWV AT SEA LEVEL ----- 250 VAC
DWV AT 70,000 FT ALTITUDE --- 100 VAC
CONTACT RESISTANCE ----- 71 mV DROP MAX@ 1 A
CONTACT RETENTION ----- 2 LBS AXIAL LOAD
ENGAGEMENT FORCE ----- 5 oz MAX
SEPARATION FORCE ----- 0.4 oz MIN

4. ADDITIONAL INFORMATION:
FOR OTHER TERMINATIONS, CONTACT CRISTEK.

5. SIZE 85 & 91 HARDWARE IS #2-56

TOLERANCE: .XXX ±.005 .XX ±.01 ANGLE ±1°	TITLE NANO METAL SHELL DUAL ROW WITH LEADS	SHT 2 OF 2	DWG. NO. CMN2	REV J
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