

## 1.2 MICRO CONNECTORS / MOTS

NO. OF CONTACTS	FIGURE	A MAX	B	C MAX
9	1	.785	.565	.400
15	1	.935	.715	.550
21	1	1.085	.865	.700
25	1	1.185	.965	.800
31	1	1.335	1.115	.950
37	1	1.485	1.265	1.100
51	2	1.435	1.215	1.050
69	2	1.735	1.515	1.350
100	3	2.170	1.800	1.442

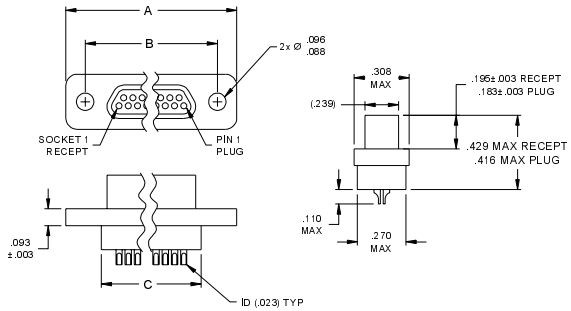


FIGURE 1

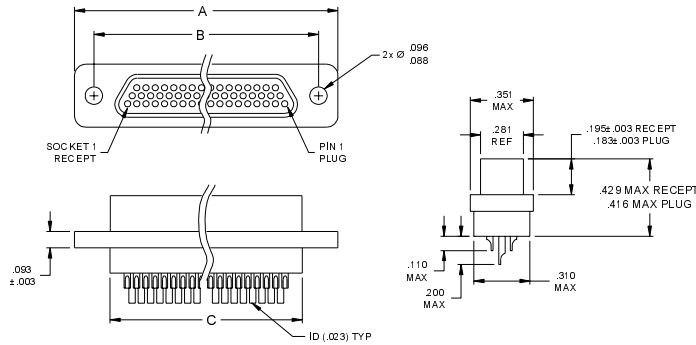


FIGURE 2

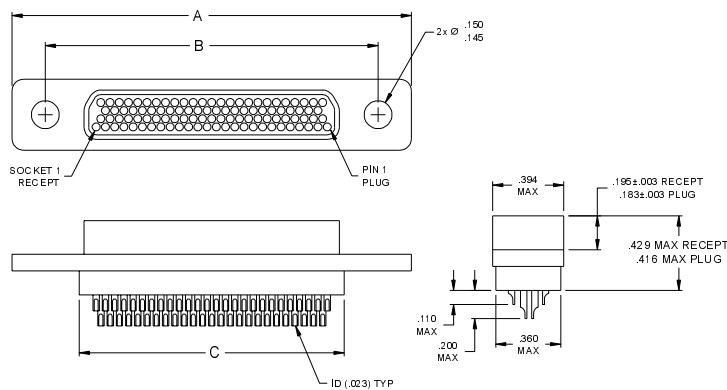


FIGURE 3

CRISTEK INTERCONNECTS, INC. www.cristek.com 1301 S. Lewis St. Anaheim, CA 92805 Phone: (714) 618-2000 FAX: (714) 535-4897	TITLE	DWG. NO.			
	MICRO-D METAL SHELL	CMD		REV	
	FILENAME	CODE IDENT NO.	SHT	OF	REV
	ADS-CMD-1	67720	1	3	G
		TOLERANCE: .XXX ±.005 .XX ±.01 ANGLE ±1°			

**CRISTEK METAL SHELL MICRO-D CONNECTORS (MATE WITH M83513)**

**NUMBER OF CONTACTS**

009	025	051
015	031	069
021	037	100

**GENDER**

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

**HARDWARE**

0 = NONE

**FACTORY INSTALLED (NON-REMOVABLE)**

F = FLOAT MOUNT  
J = HIGH PROFILE HEX DRIVE JACKSCREW  
K = HIGH PROFILE SLOTTED JACKSCREW  
L = LOW PROFILE HEX DRIVE JACKSCREW \*  
T = THREADED INSERT

**M83513 HARDWARE - FACTORY INSTALLED**

2 = LOW PROFILE HEX DRIVE \*  
3 = HIGH PROFILE HEX DRIVE  
5 = LOW PROFILE SLOTTED \*  
6 = HIGH PROFILE SLOTTED  
7 = JACKPOST KIT \*  
(HARDWARE FOR SIZES 9 - 69 IS #2-56,  
HARDWARE FOR SIZE 100 IS #4-40)

**SHELL FINISH**

A = CADMIUM  
B = NICKEL  
C = ANODIZE  
D = CHEM FILM  
E = BLACK CADMIUM  
F = FUSED TIN PLATE  
G = GOLD

**OR -1 = HARDWARE TO BE KITTED WITH CONNECTOR (NOT INSTALLED) - AS APPLICABLE**

**WIRE LENGTH**

**STRANDED**

01 = 6 INCHES  
02 = 12 INCHES  
03 = 18 INCHES  
04 = 24 INCHES  
05 = 36 INCHES  
06 = 72 INCHES

**SOLID COPPER**

**25 AWG**

01 = 0.5 INCH  
02 = 1.0 INCH  
03 = 0.25 INCH

**24 AWG**

11 = 0.5 INCH  
12 = 1.0 INCH  
13 = 0.25 INCH

**WIRE COLOR/SIZE**

0 = WHITE 26 AWG STRANDED \*  
1 = YELLOW 26 AWG STRANDED  
2 = 10 SOLID COLORS REPEATED \*  
26 AWG STRANDED  
3 = FULL COLOR CODE 26 AWG STRANDED  
9 = SOLID COPPER \*

**TERMINATION**

0000 - SOLDER CUP \*

**WIRE TYPE**

**STRANDED**

H = HARNESS (MIL-W-16878/4)  
S = SPACE (MIL-W-22759/33)  
M = MILITARY (MIL-W-22759/11) \*

**SOLID**

G = GOLD PLATED COPPER  
T = TIN PLATED COPPER

\* = MOST COMMONLY USED & STOCKED WIRE TYPE AND HARDWARE OPTIONS

**1. MATERIALS:**

SHELL - ALUMINUM PER QQ-A-200/8, QQ-A-250/11, OR QQ-A-591  
INSULATOR - DIALLYL PHTHALATE PER MIL-M-14, TYPE SD G-F  
PIN CONTACT - BERYLLIUM COPPER  
SOCKET CONTACT - COPPER ALLOY  
INTERFACIAL SEAL - FLUOROSILICONE BLEND

**2. FINISH:**

SHELL - CADMIUM PER QQ-P-416, TYPE II, CLASS 3 OVER  
ELECTROLESS NICKEL PER AMS 2404  
OR ELECTROLESS NICKEL PER AMS 2404.  
CONTACT - GOLD PER MIL-G-45204, TYPE II, GRADE C,  
CLASS I OVER NICKEL PER QQ-N-290.

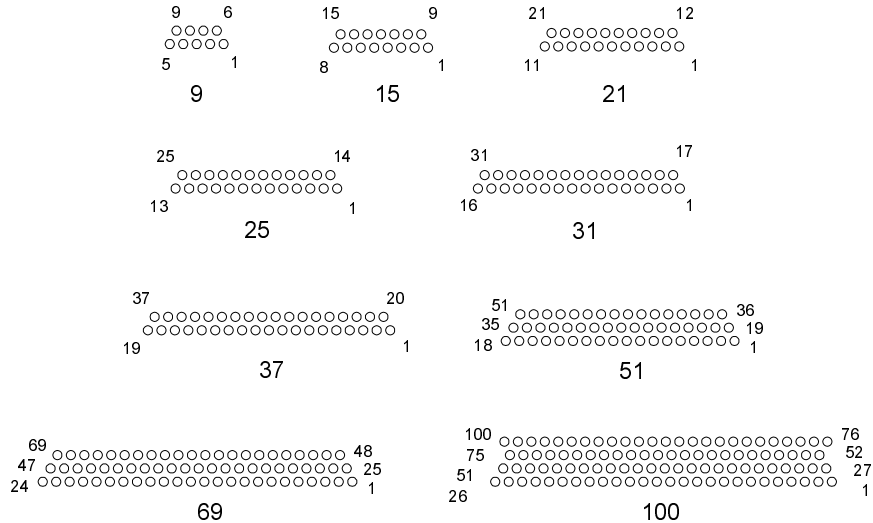
**3. SPECIFICATIONS:**

CURRENT RATING ..... 3 AMPS MAX  
TEMPERATURE RATING ..... -55° C TO +125° C  
INSULATION RESISTANCE ..... 5000 MEGOHMS MIN  
DWV AT SEA LEVEL ..... 600 VAC  
DWV AT 70,000 FT ALTITUDE --- 150 VAC  
CONTACT RESISTANCE ..... 8 MILLIOHMS MAX AT 2.5 AMPS  
LOW LEVEL CONTACT ..... 10 MILLIOHMS MAX  
RESISTANCE  
CONTACT RETENTION ..... 5 lb MINIMUM AXIAL LOAD  
ENGAGEMENT FORCE ..... 6 oz MAX  
SEPARATION FORCE ..... 0.5 oz MIN

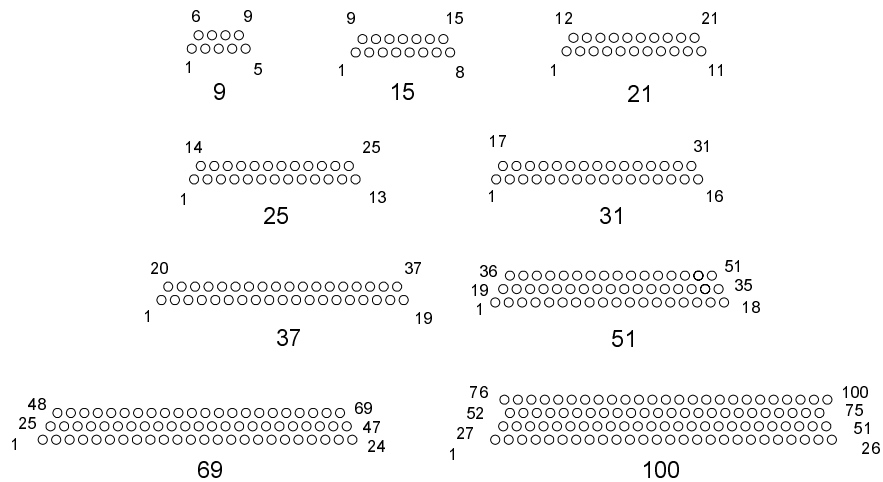
**4. ADDITIONAL INFORMATION:**

DESIGN AND PERFORMANCE IN GENERAL  
ACCORDANCE WITH M83513  
FOR OTHER TERMINATIONS, CONTACT CRISTEK.

CRISTEK INTERCONNECTS, INC. www.cristek.com 1301 S. Lewis St. Anaheim, CA 92805 Phone: (714) 618-2000 FAX: (714) 535-4897	TITLE <b>MICRO-D METAL SHELL</b>	DWG. NO. <b>CMD</b>	
	FILENAME <b>ADS-CMD-2</b>	CODE IDENT NO. <b>67720</b>	SHT <b>2</b> OF <b>3</b>
TOLERANCE: .XX ± .005 .XX ± .01 ANGLE ± 1°			



**PLUG MATING FACE**



**RECEPTACLE MATING FACE**

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	MICRO-D METAL SHELL  FILENAME ADS-CMD-3	CMD		REV
		CODE IDENT NO. 67720	SHT 3 OF 3	G
		TOLERANCE: .XX ±.005 .XX ±.01 ANGLE ±1°		