

NOTES:

- ⊗ REPRESENTS A CRITICAL DIMENSION.
- BURR ALLOWANCE: .003[.08] MAX.
- PARTS TO BE MOLDED TO POSITION.
- MINIMUM PIN PULLOUT FORCE: 4.000LB[17.79N]
- CONTACT MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS INTO PLACE.
- ALL FINISHED GOODS ARE TO BE ELECTRICAL TESTED INCLUDING HI-POT TEST @ 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH 1 LABEL-ET. ⊗
- TINNED COPPER WIRE IS ROHS COMPLIANT.
- PARTS ARE TO BE LAYER PACKAGED.
- MINIMUM METAL LATCH RETENTION FORCE: 1.000LB[4.45N]
- REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, AND TOOLING. ⊗
- FOR LENGTHS LESS THAN 12 IN, TOLERANCE SHALL BE ±.125[3.18]. FOR OTHER LENGTHS, TOLERANCES SHALL BE ±2%.
- LOCATION OF GATE PAD IS AT THE DISCRETION OF THE VENDOR.

MMSDX-XX-XXX-X-XX.XX-X-X-XXX

FEP CABLE OPTION  
 -F: FEP INSULATION  
 (LEAVE BLANK FOR STANDARD PVC INSULATION)

No OF POSITIONS  
 -02 THRU -25 (PER ROW)

WIRE GAUGE (AWG)  
 PVC: -20, -22, -24, -26, -28, -30  
 FEP: -20, -24, 28-30

COLOR CODE  
 C (SEE TABLE 3, SHEET 3)  
 (LEAVE BLANK FOR STANDARD BLACK CABLE)  
 (NOT AVAILABLE WITH FEP OPTION)

PLATING SPECIFICATION  
 -F: FLASH SELECTIVE (USE C-179-XX-F)  
 -L: LIGHT SELECTIVE (USE C-179-XX-L)  
 -S: SELECTIVE (USE C-179-XX-S)

OPTION

SINGLE  
 -M: METAL LATCH (USE IPD1-XX-D-X-M)  
 (LEAVE BLANK FOR PLASTIC)

DOUBLE  
 -LUS: PLASTIC LATCH UP, STRAIGHT  
 -LDS: PLASTIC LATCH DOWN, STRAIGHT  
 -LUX: PLASTIC LATCH UP, CROSSED  
 -LDX: PLASTIC LATCH DOWN, CROSSED  
 -MUS: METAL LATCH UP, STRAIGHT  
 -MDS: METAL LATCH DOWN, STRAIGHT  
 -MUX: METAL LATCH UP, CROSSED  
 -MDX: METAL LATCH DOWN, CROSSED

POLARIZATION OPTION  
 (-P, -K, OR -G OPTION IS REQUIRED.)  
 -P: POLARIZATION (SEE FIG 3, SHEET 2)  
 (NOT AVAILABLE WITH -LUS, -LDS, -LUX, -K, -G OPTIONS)  
 -K: KEYED POLARIZATION (USE IPD1-XX-D-K) (SEE FIG 4, SHEET 2)  
 (NOT AVAILABLE WITH -P, -G OPTIONS)  
 -G: GUIDE POST (USE IPD1-XX-D-GP) (SEE FIG 6, SHEET 3)  
 (NOT AVAILABLE WITH -LDS, -LUX, -P, -K OPTIONS)

ASSEMBLED LENGTH  
 SPECIFY IN INCHES [USE DWC-XX-XX]  
 (SINGLE END: 03.00 INCH MINIMUM,  
 DOUBLE END: 03.25 INCH MINIMUM)

END OPTION  
 -S: SINGLE END  
 -D: DOUBLE END  
 (MUST CHOOSE FROM LUS, LDS, LUX, LDX, MUS, MDS, MUX, OR MDX)

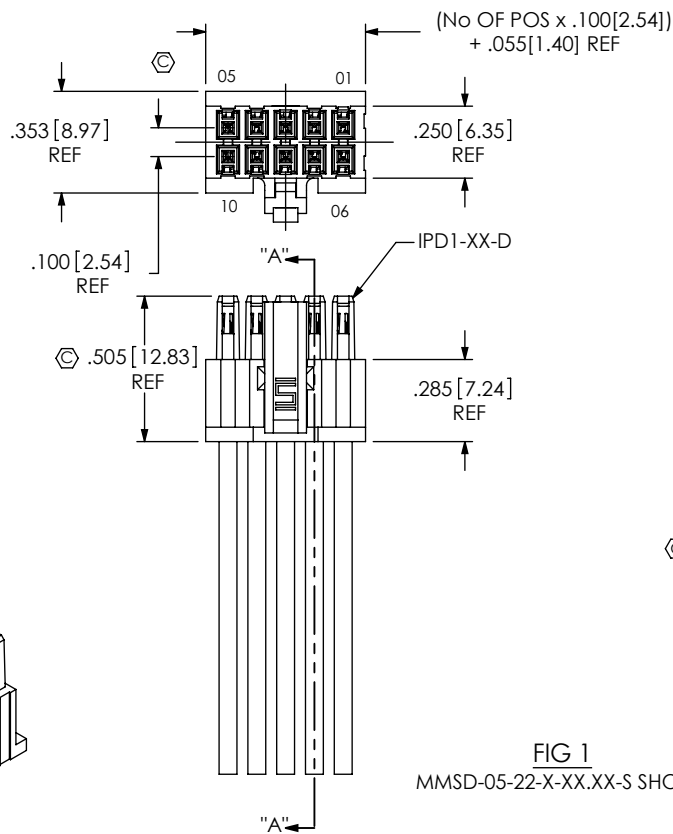
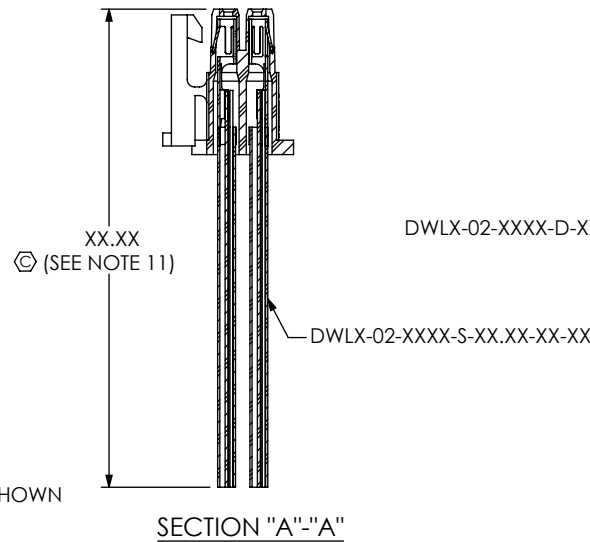


FIG 1  
 MMSD-05-22-X-XX.XX-S SHOWN



SECTION "A"-"A"

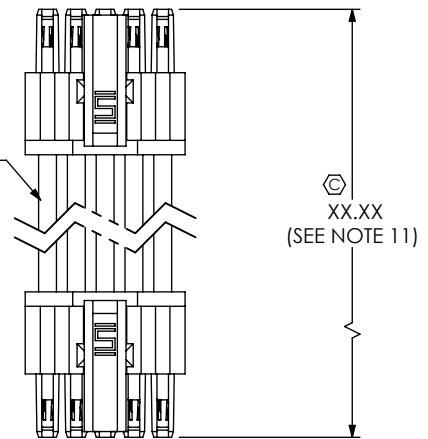
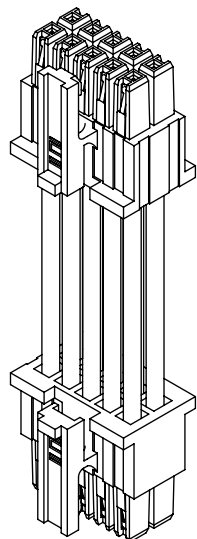


FIG 2  
 MMSD-05-22-X-XX.XX-D SHOWN



SERIES	WIRE GAUGE	CABLE	CONTACT
MMSD	20 AWG	DWC-20-XX-300	C-179-03-X
MMSD	22 AWG	DWC-22-XX-300	C-179-03-X
MMSD	24 AWG	DWC-24-XX-300	C-179-03-X
MMSD	26 AWG	DWC-26-XX-300	C-179-02-X
MMSD	28 AWG	DWC-28-XX-300	C-179-02-X
MMSD	30 AWG	DWC-30-XX-300	C-179-02-X
MMSDT	20 AWG	DWCT-20-XX	C-179-03-X
MMSDT	24 AWG	DWCT-24-XX	C-179-02-X
MMSDT	28 AWG	DWCT-28-XX	C-179-04-X
MMSDT	30 AWG	DWCT-30-XX	C-179-04-X

C:\EnterpriseVault\dwg\MISC\Mktg\MMSDX-XX-XXX-X-XX.XX-X-X-XXX-MKT.SLDDRW

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:  
 DECIMALS ANGLES  
 .XX: ±.01 [.3] 2°  
 .XXX: ±.005 [.13]  
 .XXXX: ±.0020 [.051]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:0.666667  
 HOUSING: NYLON 66, COLOR: WHITE  
 CONTACT: PHOS BRONZE  
 CABLE: INSULATION: SEE CALLOUT  
 WIRE: TINNED COPPER  
 LATCH: NICKEL-PLATED BeCu, #25, 1/2 HT



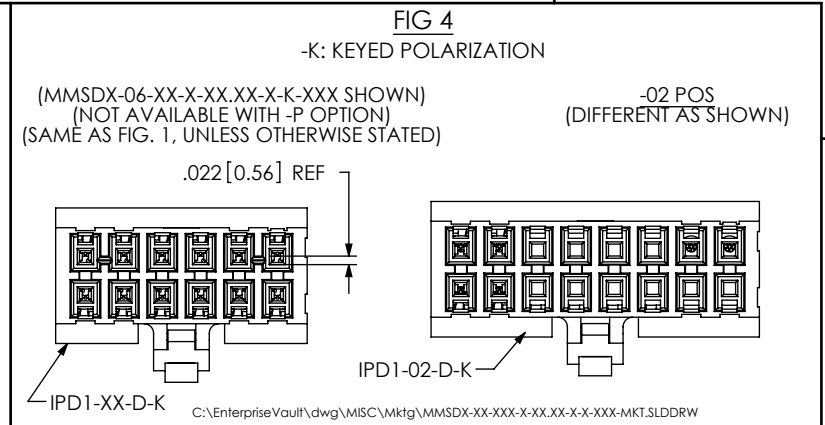
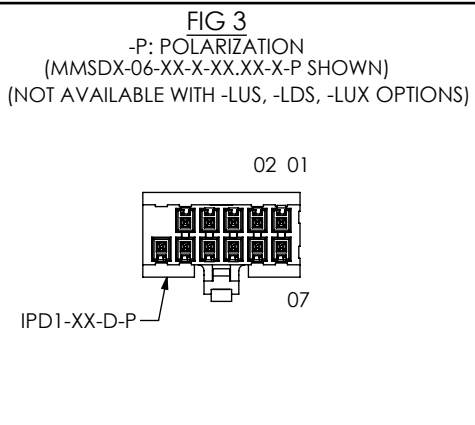
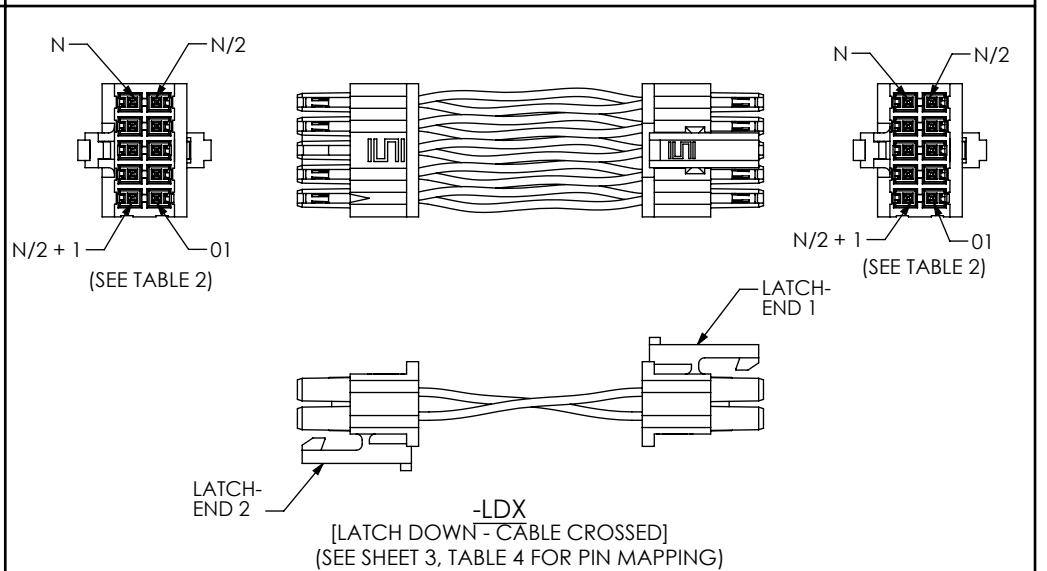
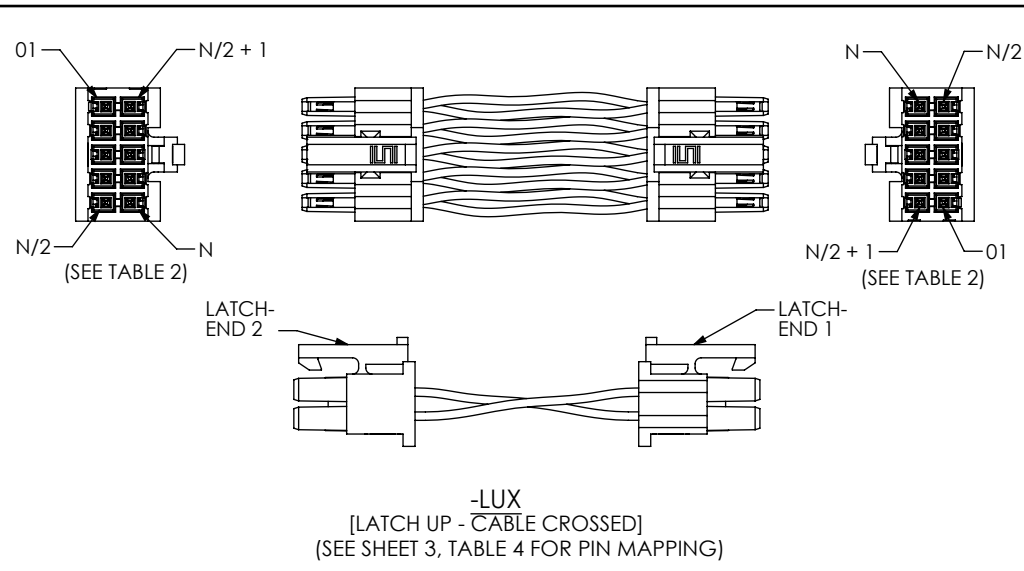
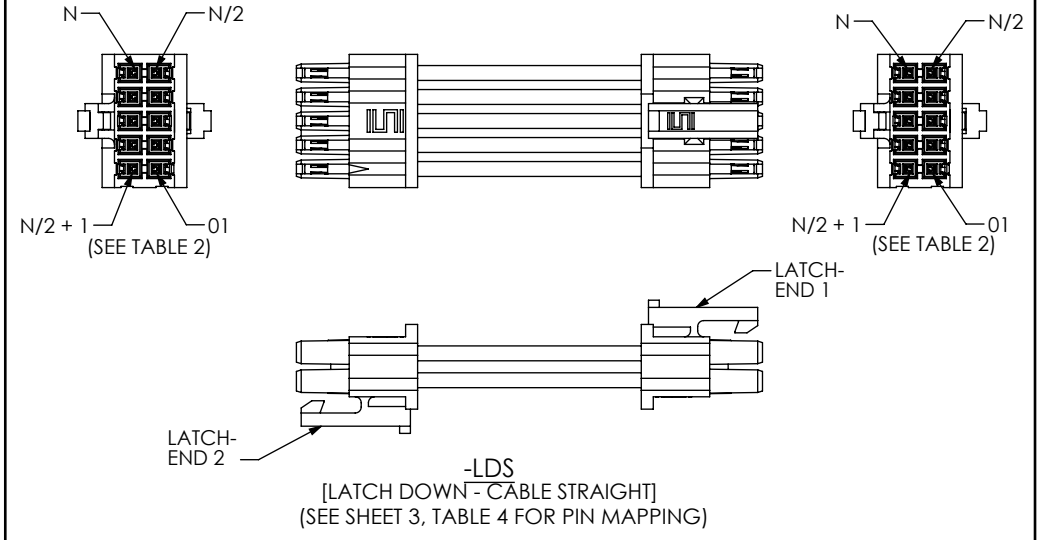
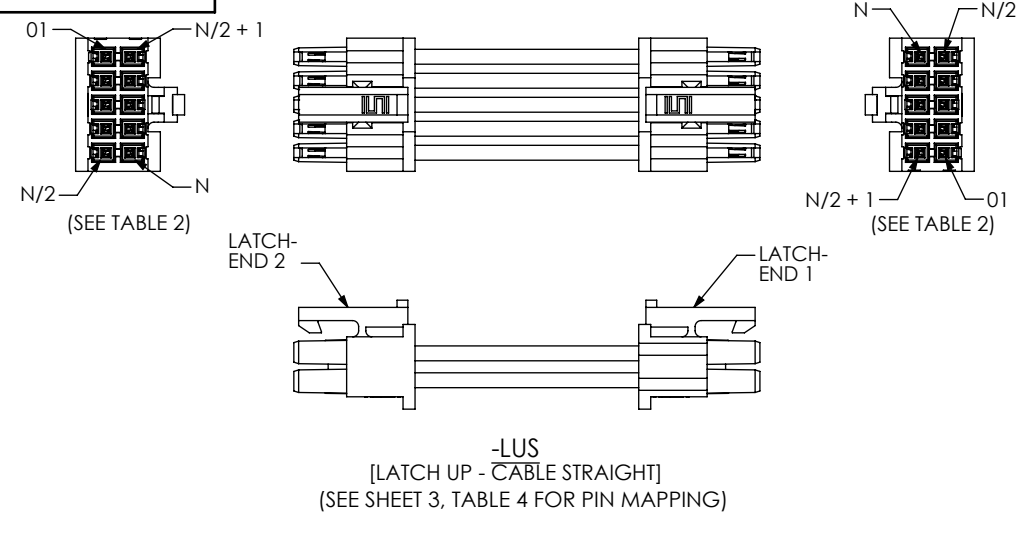
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 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
 .100[2.54] SOCKET DISCRETE CABLE ASSEMBLY

DWG. NO.  
**MMSDX-XX-XXX-X-XX.XX-X-X-XXX**

BY: DEAN P 07/16/2004 SHEET 1 OF 3

REVISION AE



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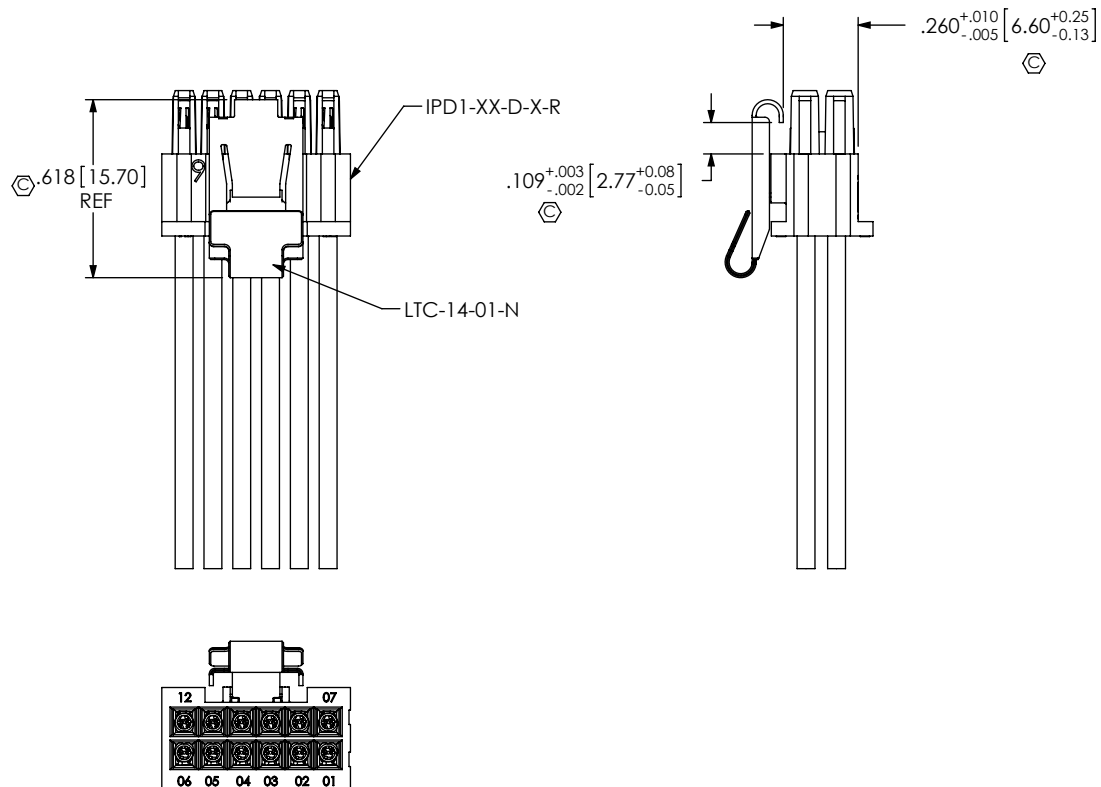
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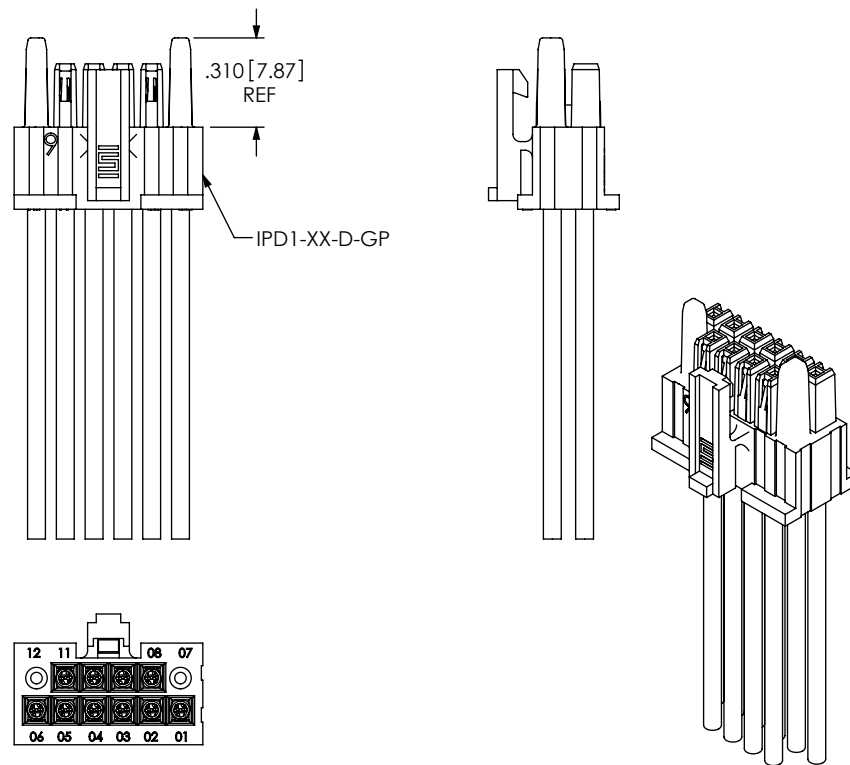
DWG. NO.  
MMSDX-XX-XXX-X-XX.XX-X-X-XXX

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**FIG 5**  
(MMSDX-06-XX-X-XX.XX-S-M SHOWN)  
(SAME AS FIG 1, UNLESS OTHER WISE STATED)



**FIG 6**  
(MMSDX-06-XX-X-XX.XX-S-G SHOWN)  
(NOT AVAILABLE WITH -LDS, -LUX, -P, -K OPTIONS)  
(SAME AS FIG 1, UNLESS OTHER WISE STATED)



**TABLE 3**

**MMSD COLOR CODED WIRE SEQUENCE**

PIN#	COLOR									
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK
1	2	3	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	49	50	

**Table 4- Pin Mapping**

End Option (Double)	END 1	END 2
-LUS	01	N/2
-LDS	01	N/2+1
-LUX	01	N
-LDX	01	01
-MUS	01	N/2
-MDS	01	N/2+1
-MUX	01	N
-MDX	01	01

**TABLE 2**

No. OF POSITIONS	N	N/2	N/2 + 1
-05	10	5	6
-07	14	7	8
-10	20	10	11
-15	30	15	16
-20	40	20	21
-25	50	25	26

**CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE**

ASSEMBLY OPERATION	IN-PROCESS INSPECTION
CUT CABLE/STRIP	C5
CRIMP CONTACTS	C6
POKE CONTACTS	C1, C2, C3, C4
ASSEMBLE LTC-14-01-N	C7, C8, C9
E-TEST	C5

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