

DO NOT SCALE FROM THIS PRINT

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) ET STAMP ON THE BODY. ⊙
- TINNED COPPER WIRE IS ROHS COMPLIANT.
- REFERENCE SAMTEC PACKAGING MANUAL.
- MINIMUM METAL LATCH RETENTION FORCE: 1.000LB[4.45N]
- REFER TO CRIMP SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING AND ITS REQUIREMENTS.
- 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.
- GOLD PLATING IS NOT REQUIRED ON THE OUTSIDE OF THE CONTACT BOX OR ON THE SIDE WITH THE RETENTION LANCE.
- ASSEMBLIES USING THE FEP OPTION ARE FOR CRIMP APPLICATIONS ONLY.
- CUT LENGTH IS ASSEMBLY LENGTH MINUS OVERALL LENGTH SUBTRACTOR.
- NYLON MATERIALS ARE HYGROSCOPIC. PRODUCT MAY EXPAND UP TO 0.5% DEPENDING ON CONDITIONS OF THE SURROUNDING ENVIRONMENT. ALL PRINT DIMENSIONS REPRESENT "DRY AS MOLDED" STATE.
- POSITIONS -02 THROUGH -05 DO NOT HAVE VOIDS.
- POSITIONS 2 AND 3 TO BE .245.

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

FEP CABLE OPTION
 -T: FEP INSULATION
 (LEAVE BLANK FOR STANDARD PVC INSULATION)
 (SEE NOTE 14)
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 FOR TEFLON OPTION, TEFLON CABLE ONLY AVAILABLE IN BLUE)

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)

PLATING SPECIFICATION
 -F: 3 μ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT TIN ON TAIL.
 -L: 10 μ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT TIN ON TAIL.
 -S: 30 μ" SELECTIVE GOLD IN CONTACT AREA, BRIGHT TIN ON TAIL.
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)

(LEAVE BLANK FOR NO POLARIZATION; AVAILABLE TO EXISTING CUSTOMERS ONLY)

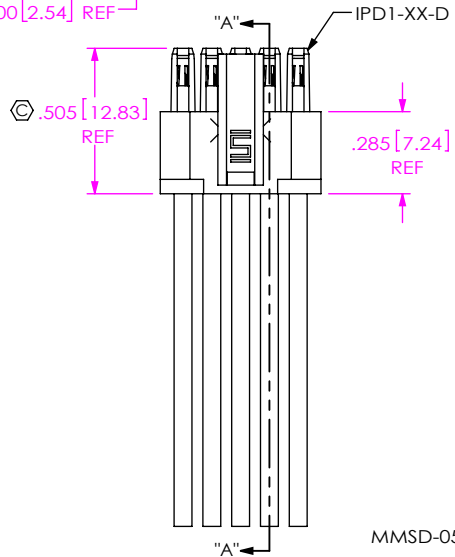
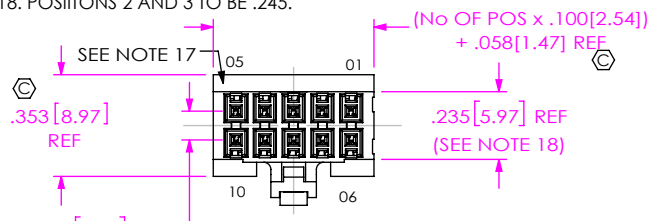
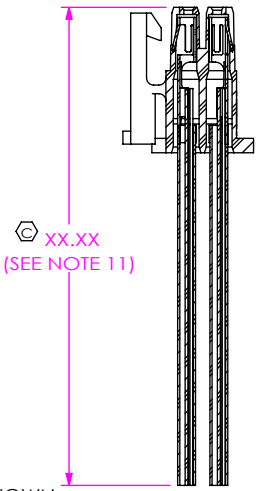


FIG 1
 MMSD-05-22-X-XX.XX-S SHOWN



SECTION "A"-"A"

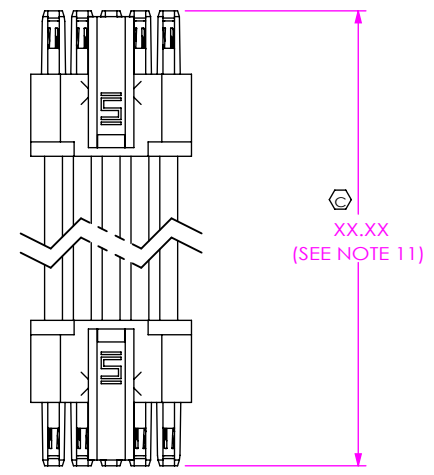
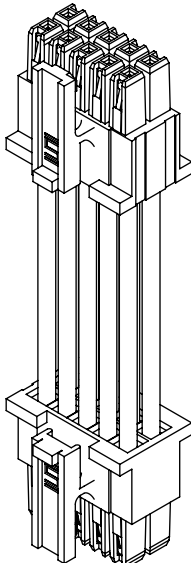


FIG 2
 MMSD-05-22-X-XX.XX-D SHOWN



SERIES	WIRE GAUGE	CABLE	CONTACT	"A"
MMSD	20 AWG	DWC-20-XX-300	C-179-03-X	.128 [3.25]
MMSD	22 AWG	DWC-22-XX-300	C-179-03-X	.128 [3.25]
MMSD	24 AWG	DWC-24-XX-300	C-179-03-X	.128 [3.25]
MMSD	26 AWG	DWC-26-XX-300	C-179-02-X	.133 [3.38]
MMSD	28 AWG	DWC-28-XX-300	C-179-02-X	.133 [3.38]
MMSD	30 AWG	DWC-30-XX-300	C-179-02-X	.133 [3.38]
MMSDT	20 AWG	DWCT-20-XX-TC	C-179-03-X	.128 [3.25]
MMSDT	24 AWG	DWCT-24-XX-TC	C-179-03-X	.128 [3.25]
MMSDT	28 AWG	DWCT-28-XX-TC	C-179-04-X	.128 [3.25]
MMSDT	30 AWG	DWCT-30-XX-TC	C-179-04-X	.128 [3.25]

F:\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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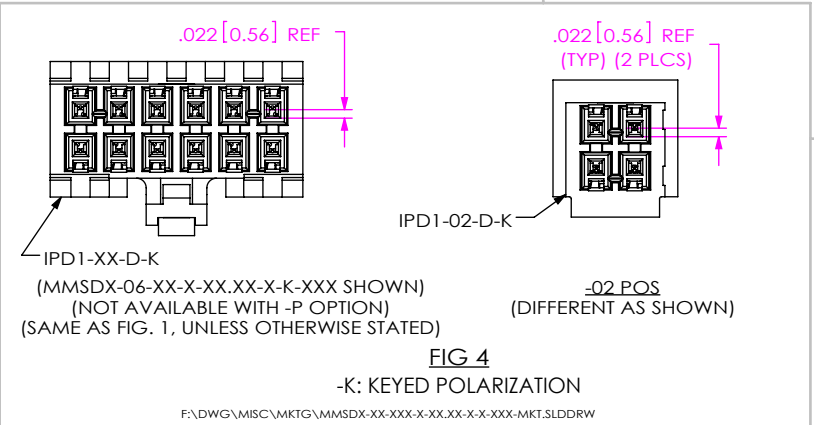
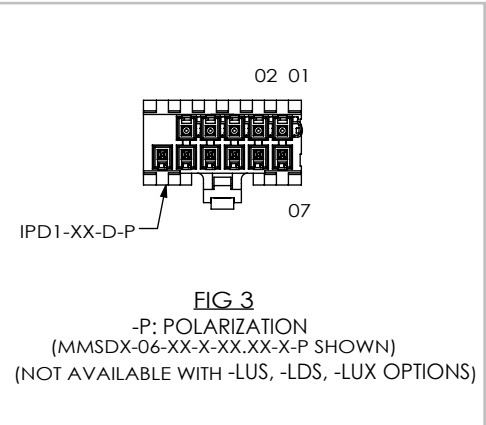
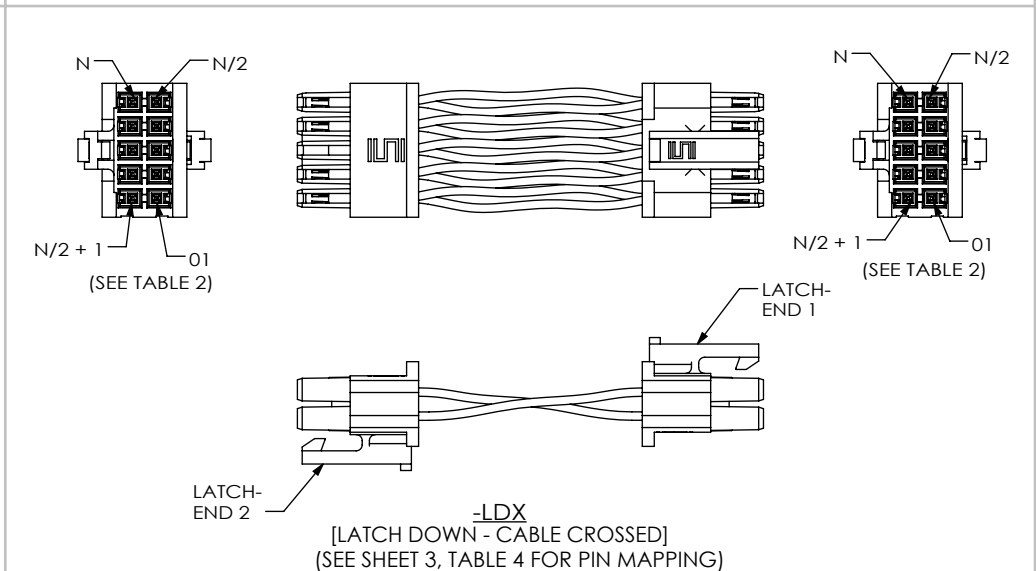
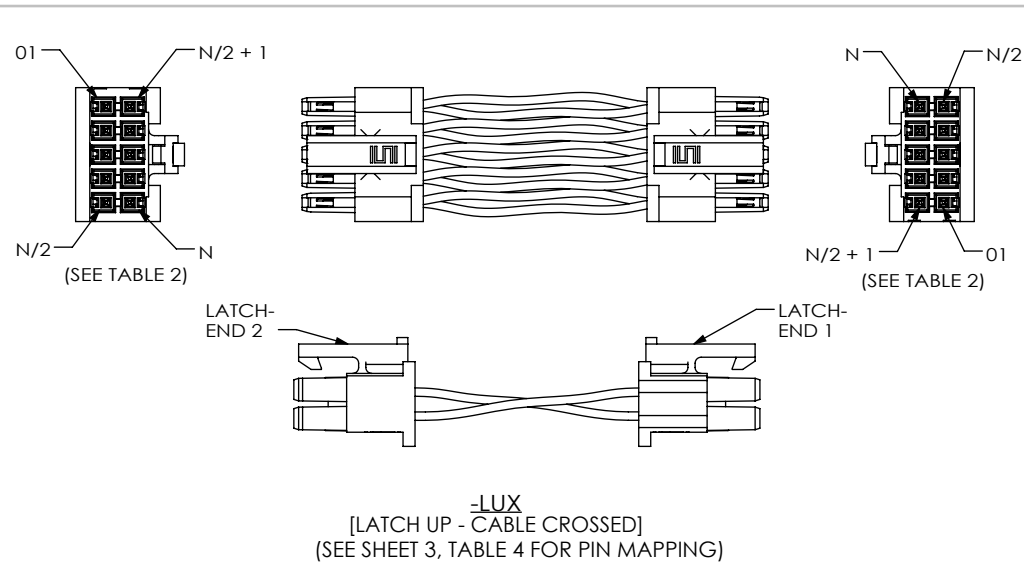
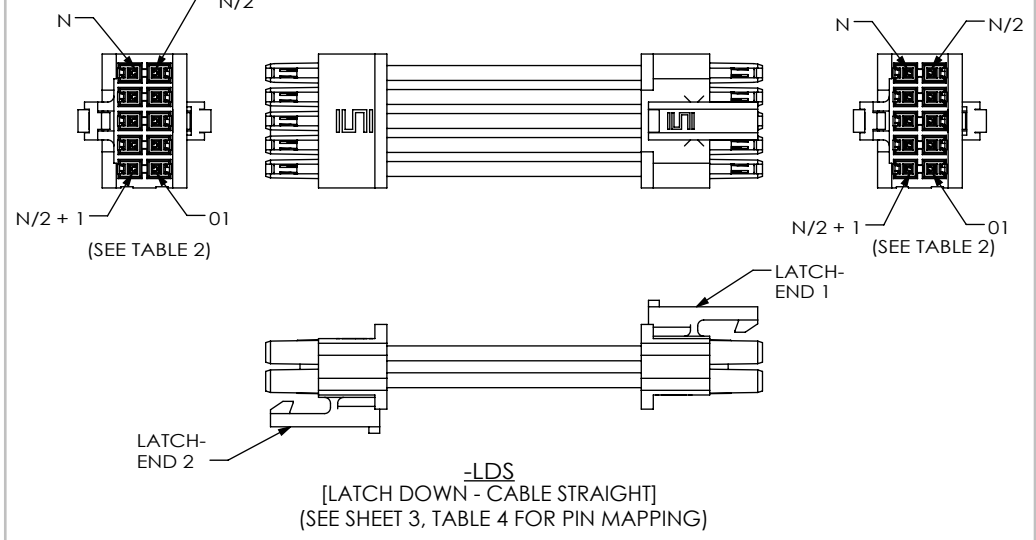
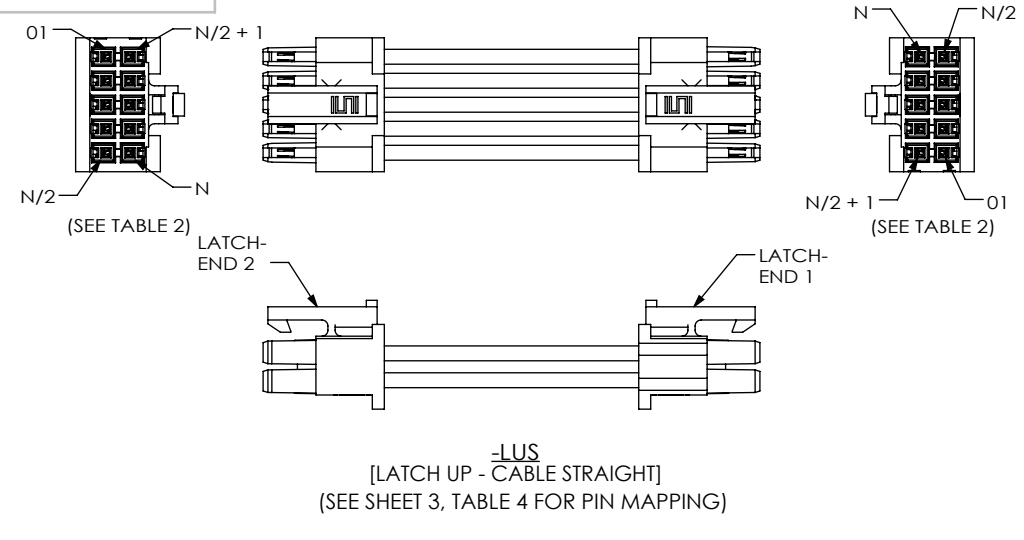


520 PARK EAST BLVD, NEW ALBANY, IN 47150
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 e-Mail info@SAMTEC.com code 55322

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

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 4**

REVISION AW



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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 2 OF 4

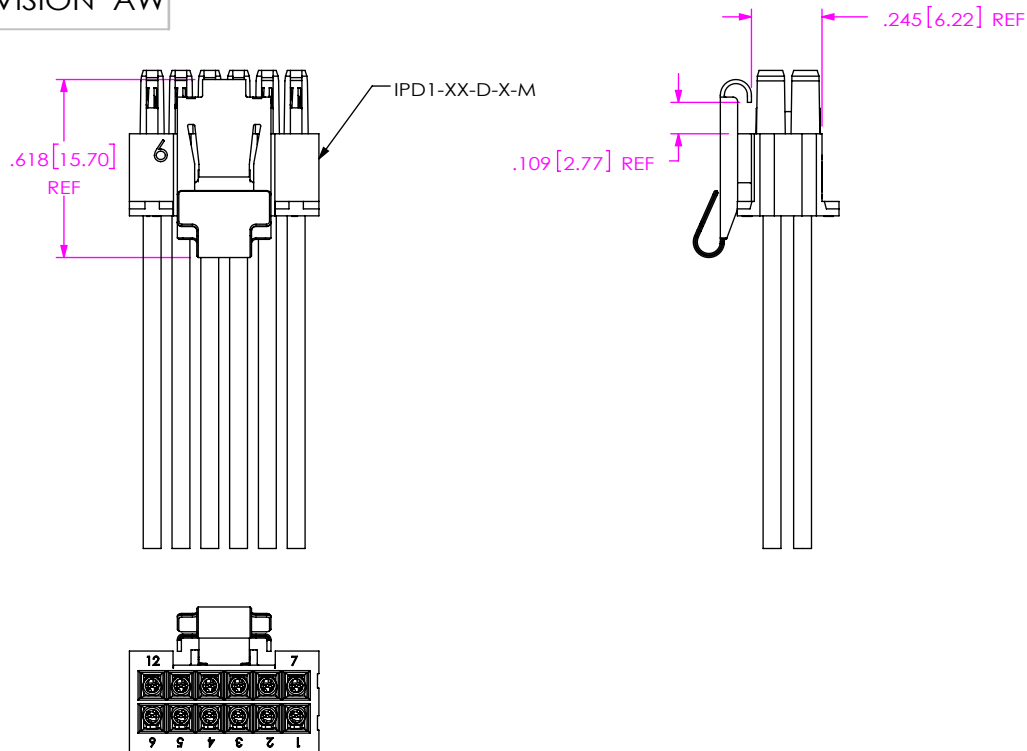


FIG 5
(MMSDX-06-XX-X-XX.XX-S-M SHOWN)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

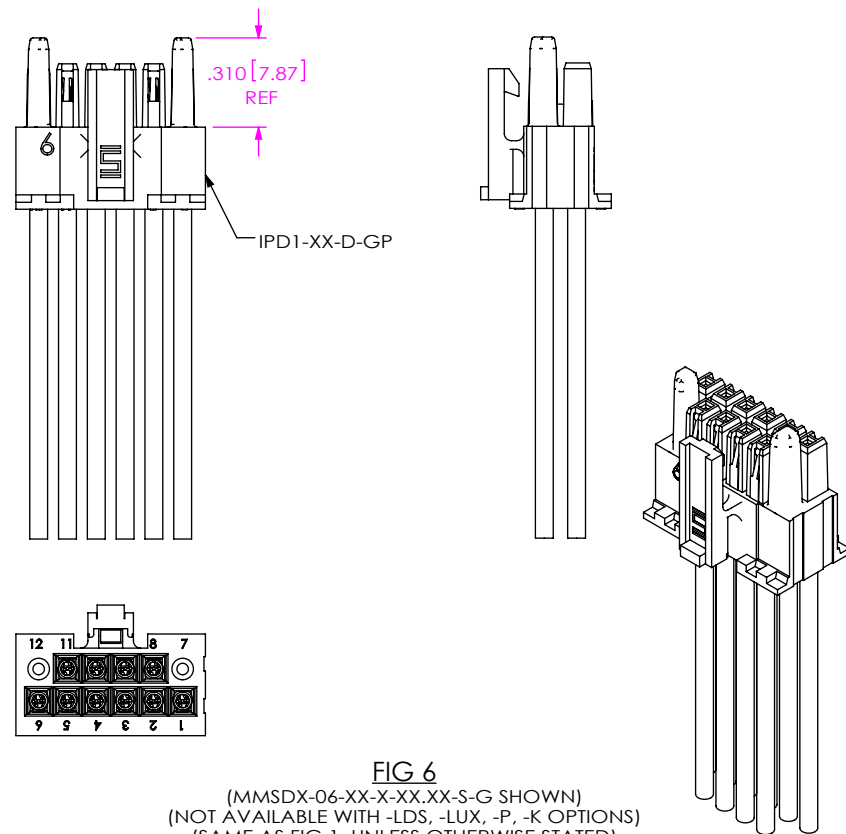


FIG 6
(MMSDX-06-XX-X-XX.XX-S-G SHOWN)
(NOT AVAILABLE WITH -LDS, -LUX, -P, -K OPTIONS)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

TABLE 3 MMSD COLOR CODED WIRE SEQUENCE COLOR										
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK
	DWC-XX-01-300	DWC-XX-02-300	DWC-XX-03-300	DWC-XX-04-300	DWC-XX-05-300	DWC-XX-13-300	DWC-XX-07-300	DWC-XX-08-300	DWC-XX-09-300	DWC-XX-10-300
PIN #	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

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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 3 OF 4

CABLE CUT IN-PROCESS

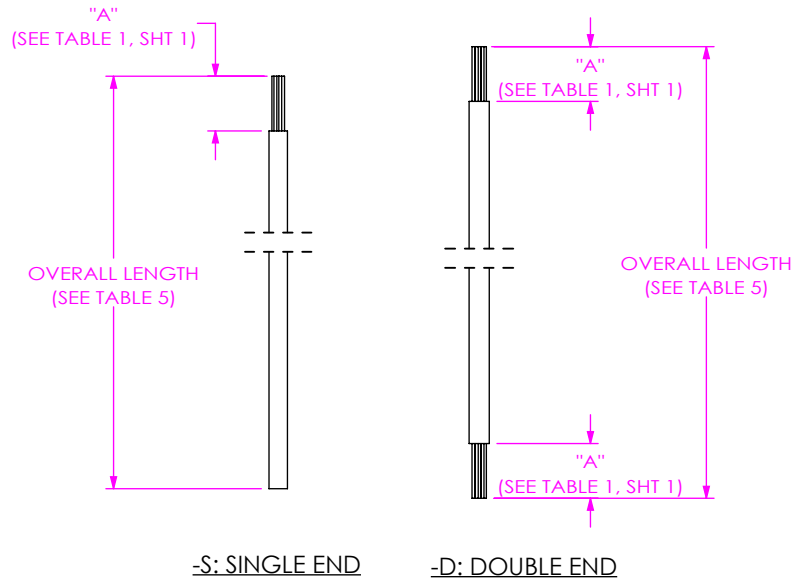


TABLE 5 (OVERALL LENGTH SUBTRACTORS) (SEE NOTE 15)	
	LENGTH
-S: SINGLE END	.250 [6.35]
-D: DOUBLE END	.500 [12.70]

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

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