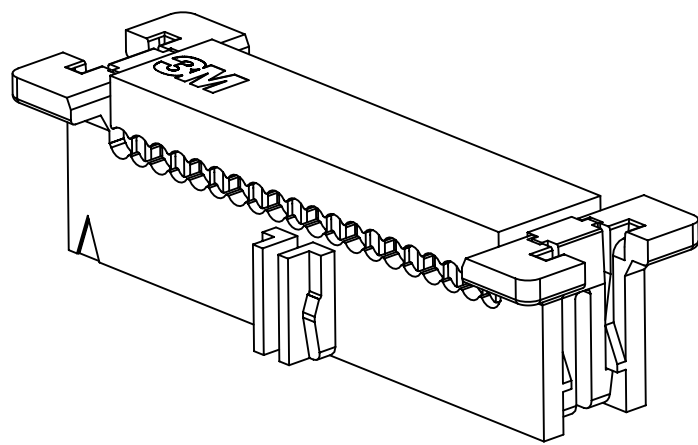
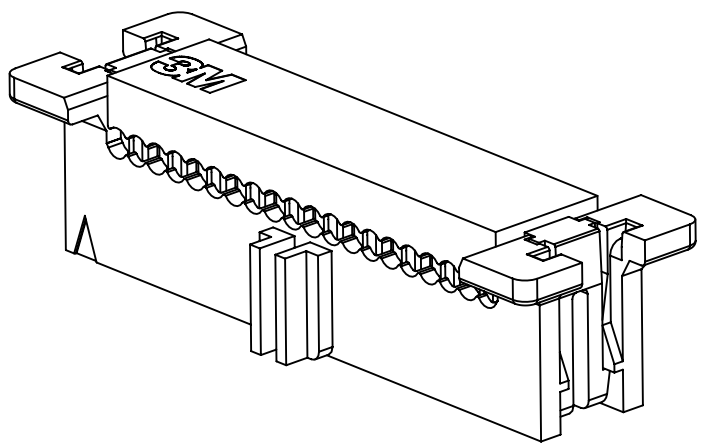


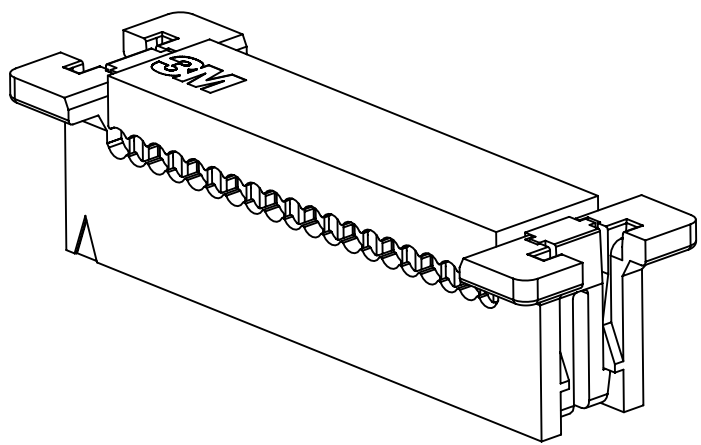
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



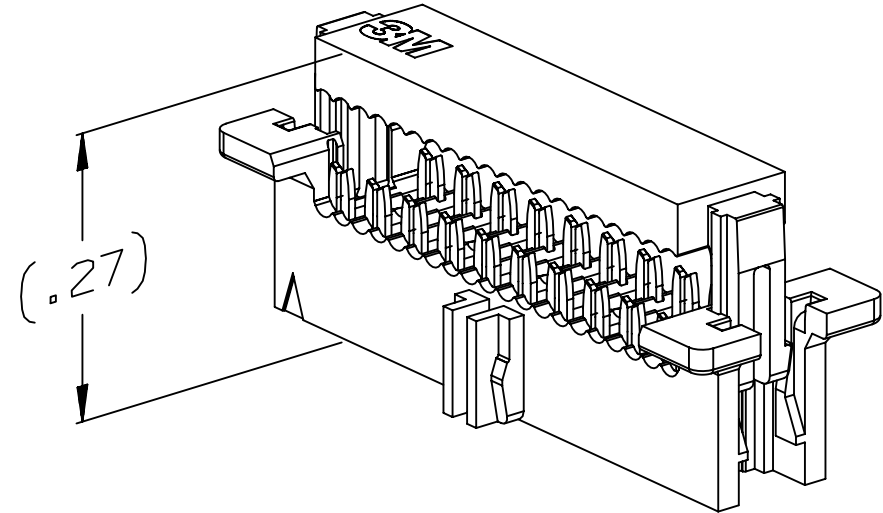
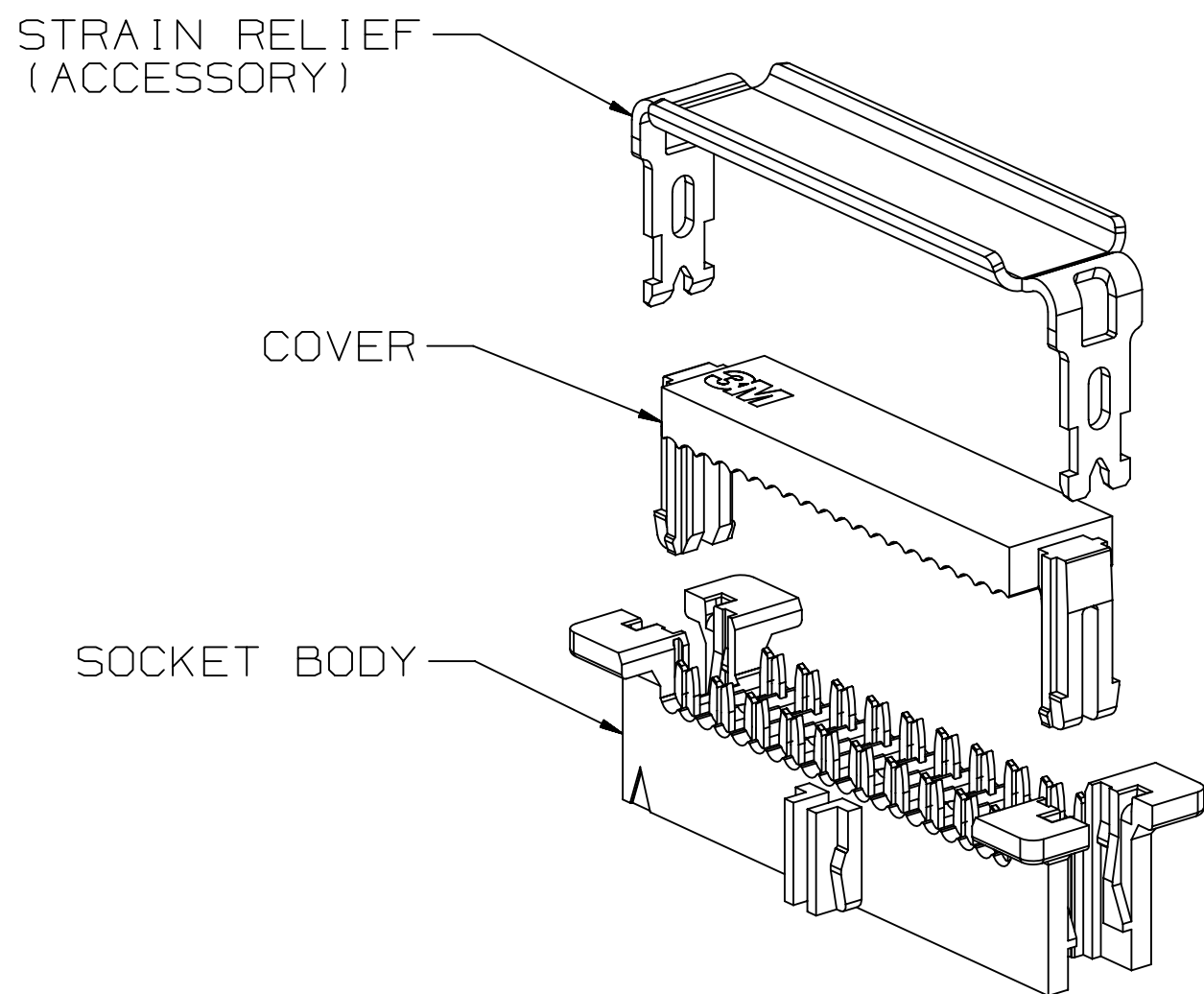
CENTER POLARIZATION
AND FRICTION LATCH



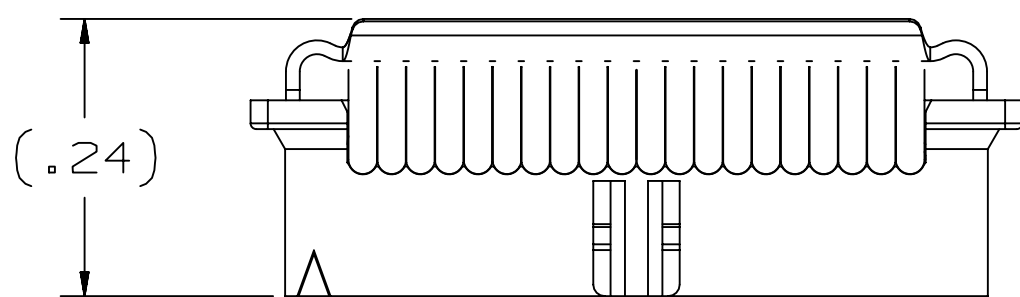
CENTER POLARIZATION
AND NO FRICTION LATCH



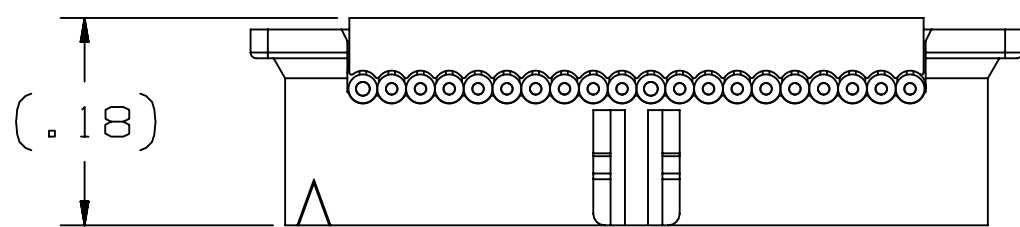
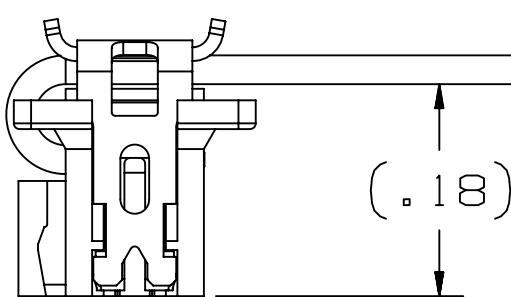
NO CENTER POLARIZATION
AND NO FRICTION LATCH



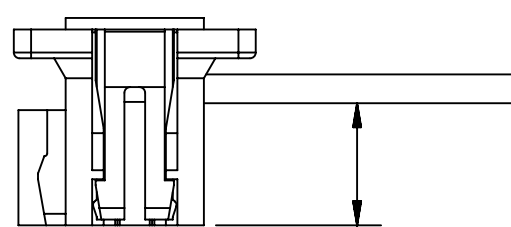
PRE-POSITIONED COVER



WITH OPTIONAL
STRAIN RELIEF



NO STRAIN RELIEF



TERMINATED
CONNECTOR

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PERFORMANCE:	
CURRENT RATING:	1.0A, UL 04P-50P, NOT FOR CURRENT INTERRUPTION 1.0A, CUL 04P-30P, NOT FOR CURRENT INTERRUPTION 0.75A, CUL 32P-50P, NOT FOR CURRENT INTERRUPTION 0.75A, ALL LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70 1.50A, 6 LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
UL & CUL VOLTAGE RATING:	125V _{AC}
INSULATION RESISTANCE:	> 1 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	1250V _{DC} AT SEA LEVEL
OPERATING TEMPERATURE:	-65°C TO +125°C
UL & CUL OPERATING TEMPERATURE:	+130°C

- NOTES
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS STEEL
CONTACTS: BeCu ALLOY.
 - PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING AREA
00 = FLASH GOLD ON WIPING AREA.
 - RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH, 30 AWG, SOLID OR STRANDED.
RECOMMENDED CABLE:
SEE TABLE 2 FOR CABLE COMPATIBILITY.
 - MATING COMPATIBILITY:
3M 1.27mm (0.050"), SERIES 452 HEADER WITH LATCH/EJECT OPTION. TECH SHEETS TS-2437 AND TS-2396
 - REGULATORY INFORMATION:
VISIT 3M.com/regs
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 - REFERENCE RELATED DOCUMENTS:
PRODUCT SPECIFICATION:
3M DOC. ID# 78-5102-0091-4.
 - TOOLING AND INSTALLATION INSTRUCTIONS:
3M DOC. ID# 78-9101-8937-8.
 - OTHER PIN COUNTS AVAILABLE UPON REQUEST. CONTACT 3M.
 - PACKAGING:
SOCKET: TRAY
COVER: BAG

ORDERING INFORMATION
FOR RAPID INSTALLATION ON
RIBBON CABLE APPLICATIONS

451 XX - 0 X 0 0 XX

SERIES

NUMBER OF POSITIONS
SEE TABLE 1

PLATING
00 = AU FLASH
30 = 30μ" GOLD

OPTIONAL FEATURES
0 = NONE SPECIFIED

PACKAGING
0 = STANDARD (TRAYS)

CENTER POLARIZATION / FRICTION LATCH
0 = NO CENTER POLARIZATION (CP) (ALL POS.)
1 = CP NO FRICTION LATCH (08 AND HIGHER POS.)
2 = CP WITH FRICTION LATCH (08 AND HIGHER POS.)

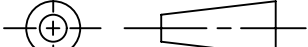
NOTE:
FRICTION LATCH (OPTION 2) IS NOT SUITABLE
FOR HEADER WITH LATCH EJECT OPTION

ACCESSORY: STRAIN RELIEF
3448-451XX

NUMBER OF POSITIONS

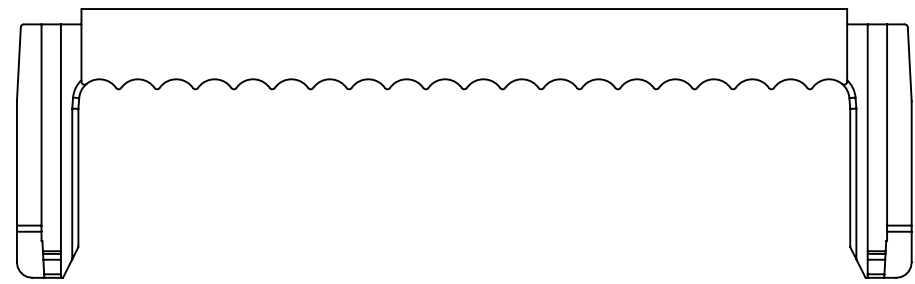
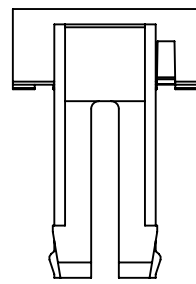
APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

NUMBER OF POSITIONS

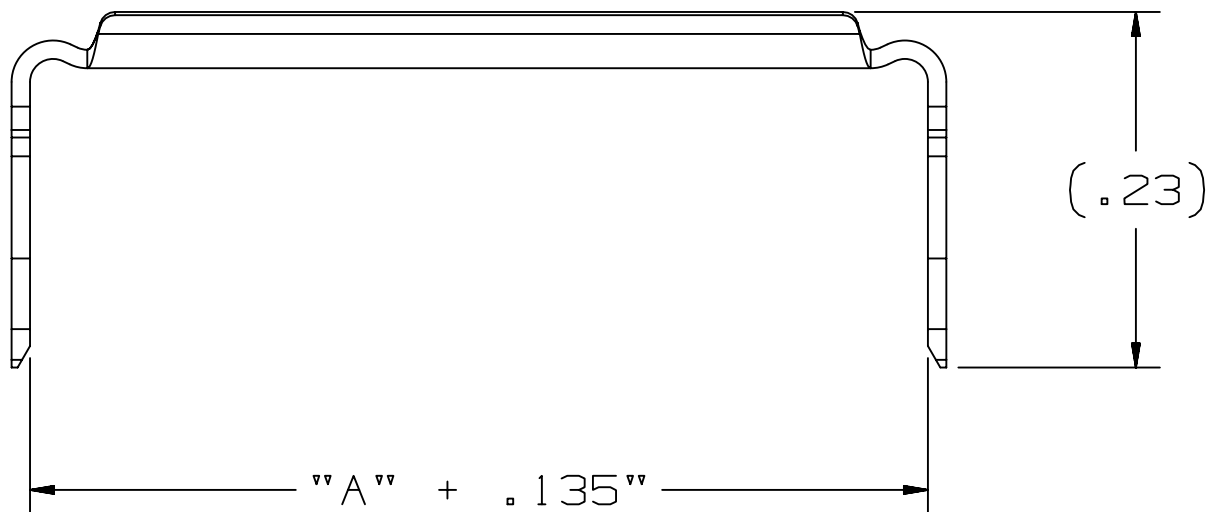
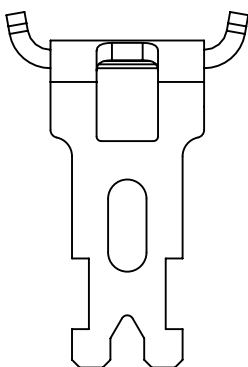
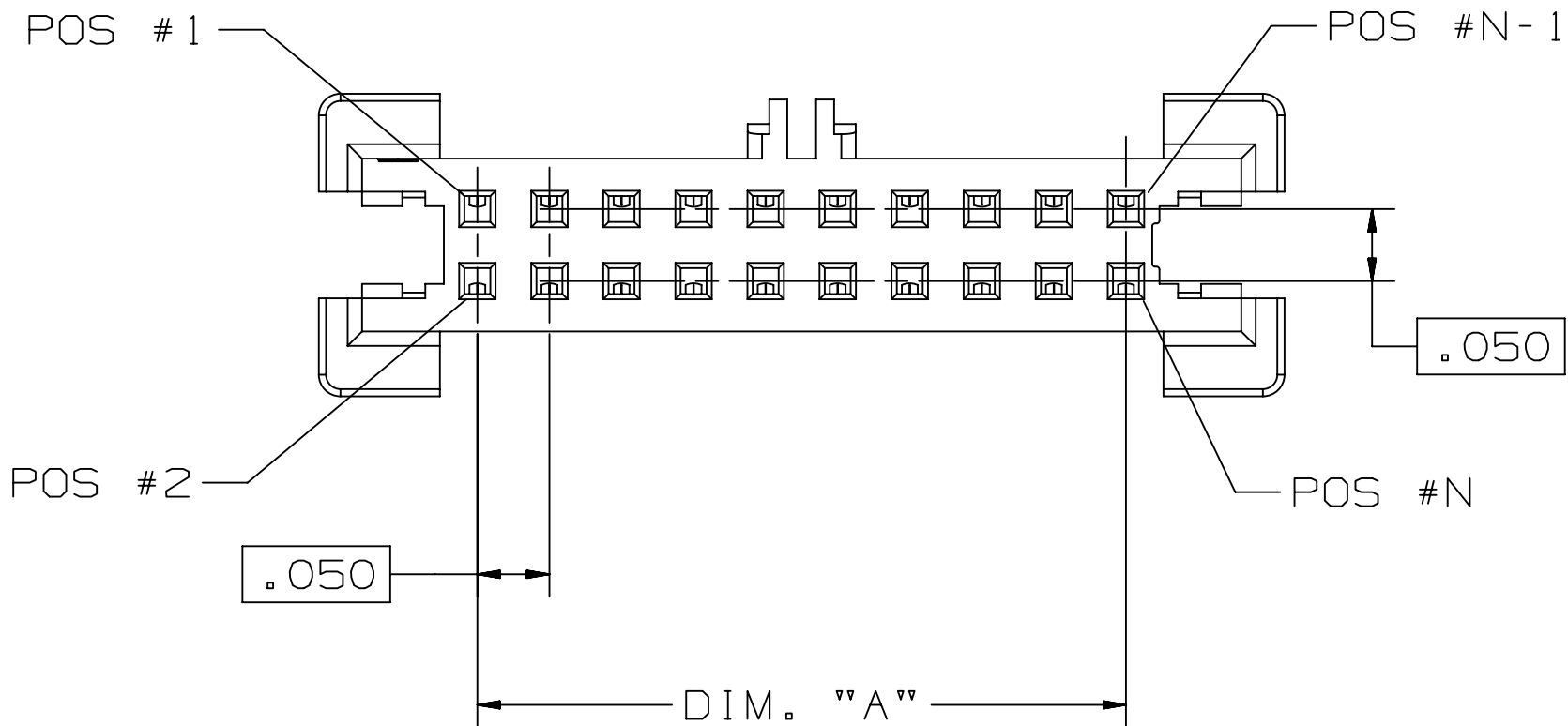
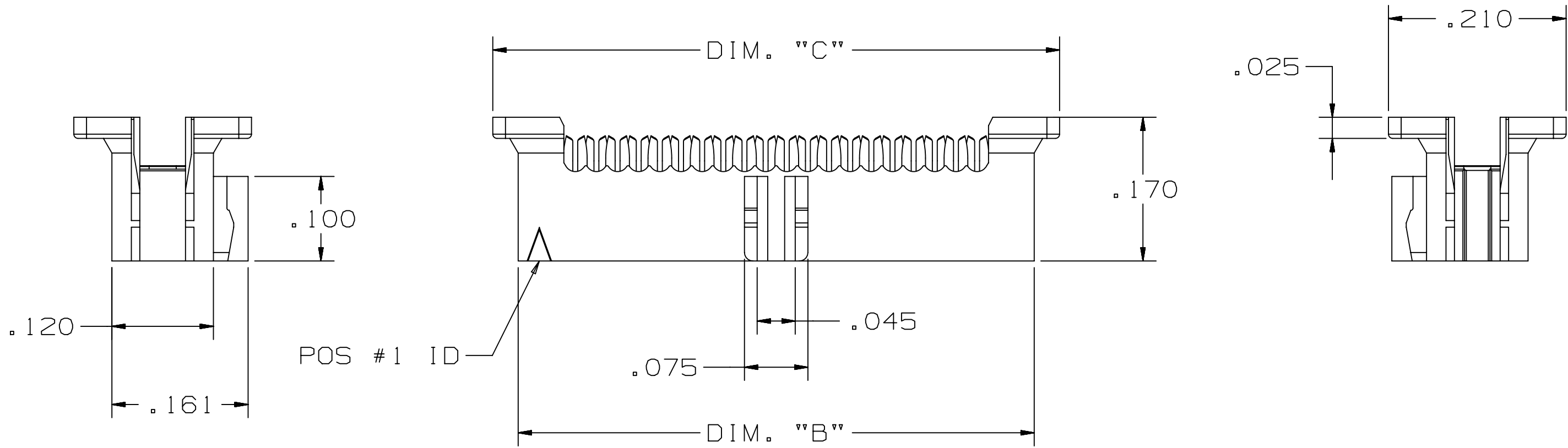
78-5100-2396-9 78-5100-2437-1						PRODUCTION RELEASE						
DESIGN REFERENCE			NEXT ASSEMBLY			REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
ACCESS CODES						DRFT	ARM	DATE FEB 11, 2011			MFG	DATE
						CHKD		DATE			APPRV SAN	DATE FEB 11, 2011
DIVISION			DIVISION CODE EMSD						© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING			SCALE 1			TOLERANCES EXCEPT AS NOTED			St. Paul, MN 55144			
						INCHES .01 ± .01 .00 ± .02 .000 ± .010 .0000 ± .005			TITLE RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES			
THIRD ANGLE PROJECTION						MILLIMETERS 0 ± .01 0 ± .02 0 ± .005						
INTERPRET PER ASME Y14.5 - 2018						ANGLES ±						
MAX SURFACE ROUGHNESS						CAGE NUMBER			SIZE DRAWING NO.			REV.
☒ ALL SURFACES						D 78-5100-2436-3			K			
☒ MARKED ONLY						MODEL 451			DET. LISTS ☐ YES ☒ NO			SHT 1 OF 3

UL FILE NO: E68080

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



COVER



ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

TABLE 1			
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.210	.270
6	.100	.260	.320
8	.150	.310	.370
10	.200	.360	.420
12	.250	.410	.470
14	.300	.460	.520
16	.350	.510	.570
20	.450	.610	.670
26	.600	.760	.820
30	.700	.860	.920
40	.950	1.110	1.170
50	1.200	1.360	1.420

TABLE 2	
COMPATABLE RIBBON CABLE	
1	3M™ ROUND CONDUCTOR FLAT CABLE, 3754 SERIES: PVC, ROUND STRANDED CONDUCTOR
2	3M™ ROUND CONDUCTOR FLAT CABLE, 3447 SERIES: PVC, ROUND SOLID CONDUCTOR
3	3M™ ROUND CONDUCTOR FLAT CABLE, 3756 SERIES: TPE, ROUND STRANDED CONDUCTOR
4	3M™ ROUND CONDUCTOR FLAT CABLE, 3749 SERIES: TPE, ROUND SOLID CONDUCTOR
5	3M™ ROUND CONDUCTOR FLAT CABLE, 3609 SERIES: FEP, ROUND STRANDED CONDUCTOR
6	3M™ ROUND CONDUCTOR FLAT CABLE, 3604 SERIES: FEP, ROUND SOLID CONDUCTOR
7	3M™ ROUND CONDUCTOR FLAT CABLE, HF447 SERIES: PO, HALOGEN FREE, ROUND SOLID CONDUCTOR
8	3M™ ROUND CONDUCTOR FLAT CONTROLLED IMPEDANCE CABLE, 7700 SERIES: PO, SHIELDED, ROUND SOLID CONDUCTOR

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K	106347	AUG 19,2022 ADD TABLE 2 FOR CABLE	JNC	SAN
J	105041	MAY 26,2022 REVISE PERFORMANCE SECTION	JNC	SAN
H	100200	OCT 19,2021 ADD POS 26, 40, 50	JNC	SAN
G	92270	AUG 19,2020 ADD NOTES AND VIEWS	JNC	SAN
F	56988	SEP 24,2014 REVISE PERFORMANCE CHART	JNC	SN
E	54514	MAY 07,2014 ADD UL LOGO	SJS	SAN
D	51884	JAN 08,2014 ADD DESIGN REF, UPDATE TITLE, ADD TS	SJS	SAN
C	50290	OCT 08,2013 REVISE NOTES 1, 3, 8 & OPERATING TEMP.	JNC	SN
B	48635	JUL 12,2013 MATCH TEXT FONTS & ADD NOTE 10	JNC	SN
A	46797	MAR 25,2013 PRODUCTION RELEASE	JNC	SAN
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	ARM	FEB 11,2011	MFS	DATE
CHKD	DATE	FEB 11,2011	APRVL	DATE
CHKD	DATE	FEB 11,2011	APRVL	DATE

78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY	
DESIGN REFERENCE	SCALE	DO NOT SCALE DRAWING	SCALE
1	4	1	1
TOLERANCES EXCEPT AS NOTED	INCHES	THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018
0 ± .01 .00 ± .02 .000 ± .010 .0000 ± .005	MILLIMETERS	0 ± .01 .00 ± .02 .000 ± .005	MAX. SURFACE ROUGHNESS
0 ± .01 .00 ± .02 .000 ± .005	ANGLES	0 ± .01 .00 ± .02 .000 ± .005	MARKED ONLY

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RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE NUMBER D78-5100-2436-3	
MODEL 451		REV. K	
LISTS		YES NO	
SHT 2 OF 3			

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES

.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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A	46797	MAR 25,2013 PRODUCTION RELEASE	JNC	SAN
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES 78-5100-2437-1 DESIGN REFERENCE		DATE FEB 11,2011	MFG SAN	DATE FEB 11,2011
DIVISION		DATE	APPL SAN	DATE FEB 11,2011
DO NOT SCALE DRAWING		SCALE 4 1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES .0 ± .1 .00 ± .02 .000 ± .010 .0000 ± .005	MILLIMETERS 0 ± .0 ± .00 ± .000 ±	
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS 12.5 ALL SURFACES ☒ MARKED ONLY		
ANGLES ±		CAGE NUMBER D 78-5100-2436-3		
MODEL 451		SIZE DRAWING NO. 451		
DET. LISTS		OYES ☐ NO ☐		
SHT 3 OF 3		REV. K		