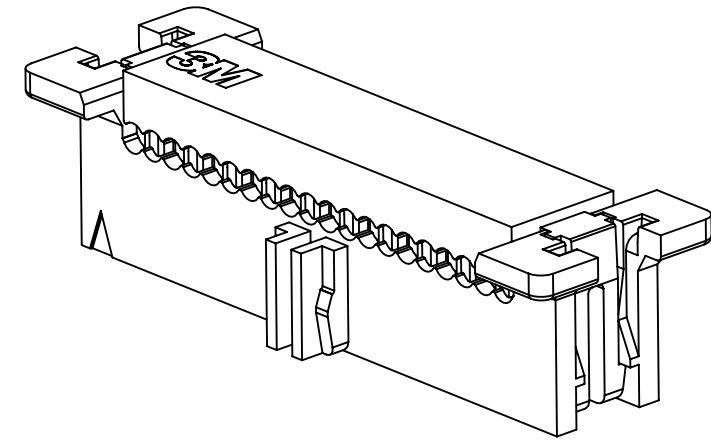
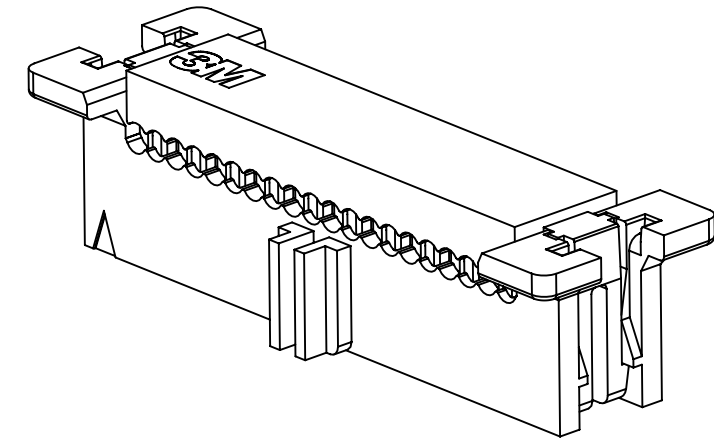


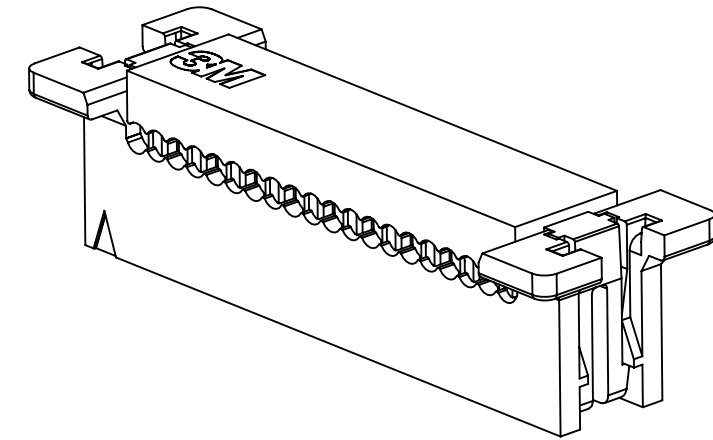
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



CENTER POLARIZATION AND FRICTION LATCH



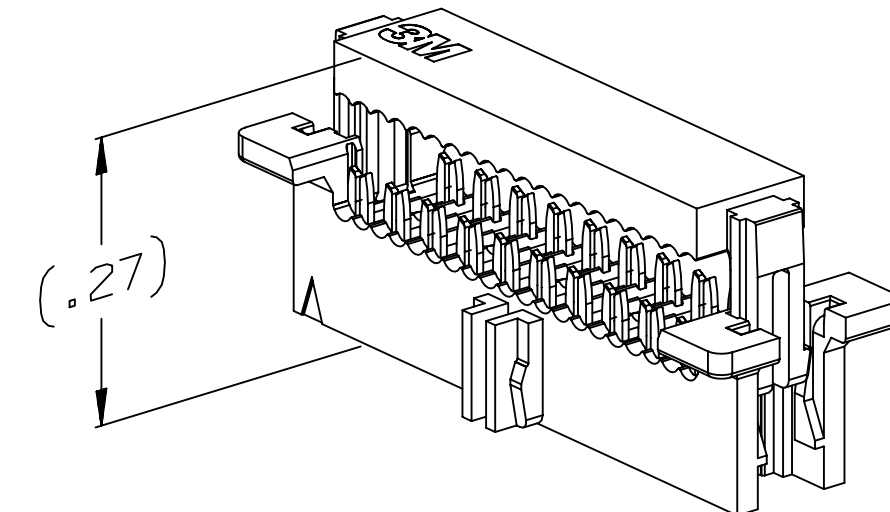
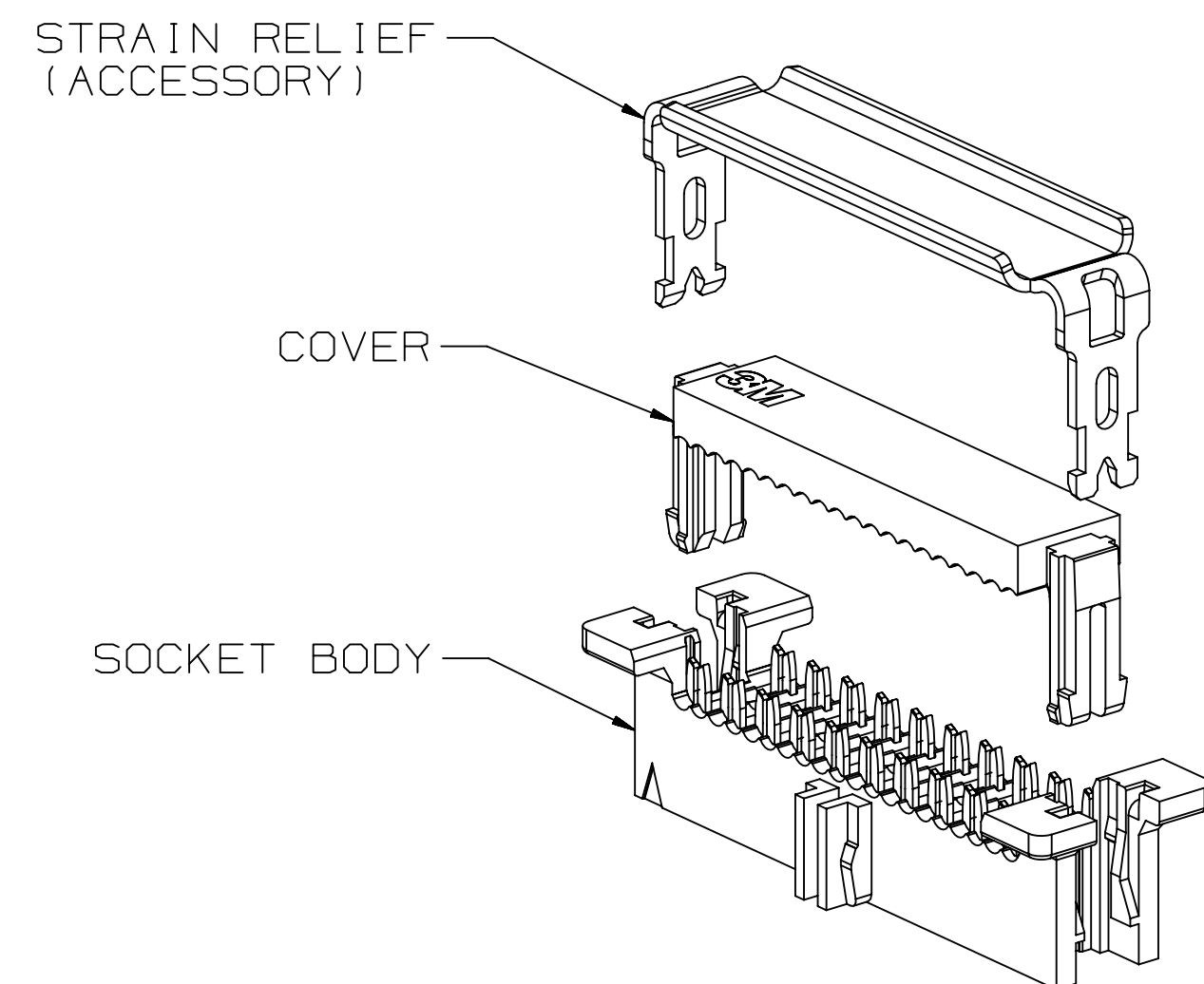
CENTER POLARIZATION
AND NO FRICTION LATCH



NO CENTER POLARIZATION
AND NO FRICTION LATCH

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

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



PRE-POSITIONED COVER

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

CENTER POLARIZATION / FRICTION LATCH _____

0 = NO CENTER POLARIZATION (CP) (ALL POS.)

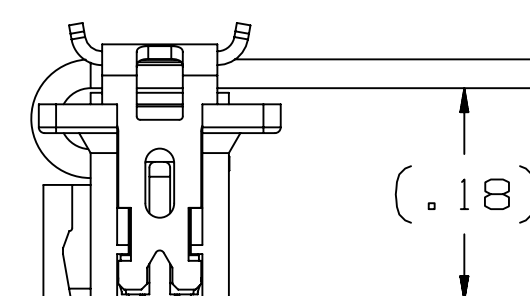
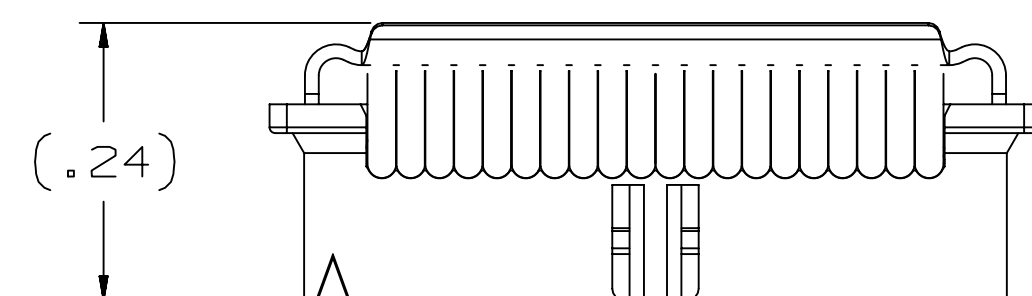
1 = CP NO FRICTION LATCH (08 AND HIGHER POS.)

2 = CP WITH FRICTION LATCH (08 AND HIGHER POS.)

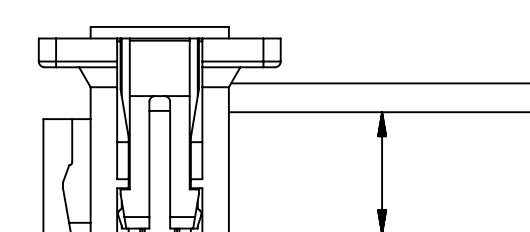
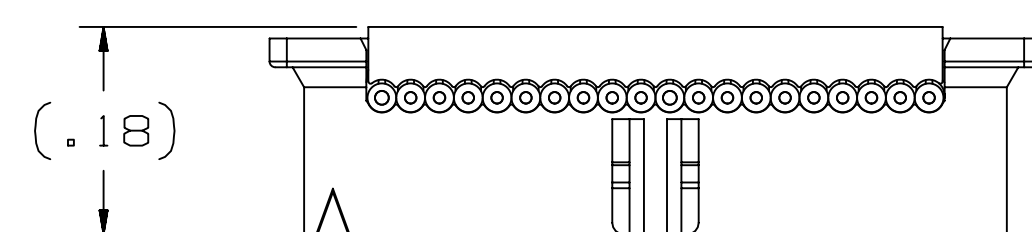
PACKAGING

0 = STANDARD (TRAYS)

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



WITH OPTIONAL
STRAIN RELIEF



NO STRAIN RELIEF

ACCESSORY: STRAIN RELIEF
3448-451XX
└── NUMBER OF POSITIONS

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX
NUMBER OF POSITIONS —

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 LOG	SJS	SAN
D	51884	JAN 08,2014 ADD DESIGN REF, UPDATE TITLE, ADD TS REF	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	AFRM	DATE FEB 11,2011	INFO	DATE
CHKD		DATE	APRFL SAN	DATE FEB 11,2011

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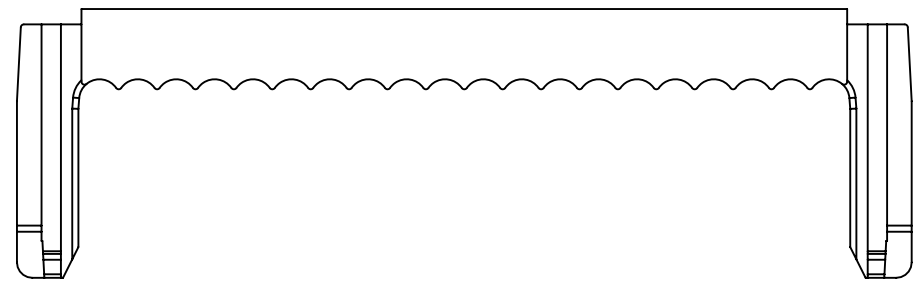
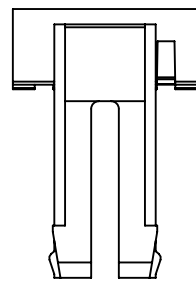
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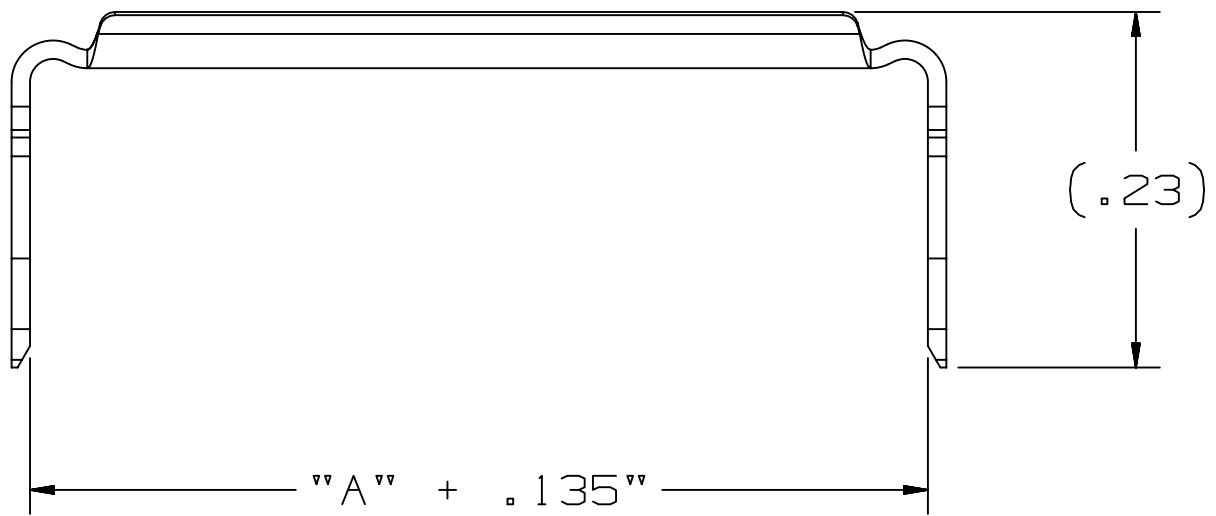
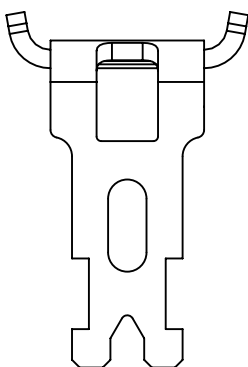
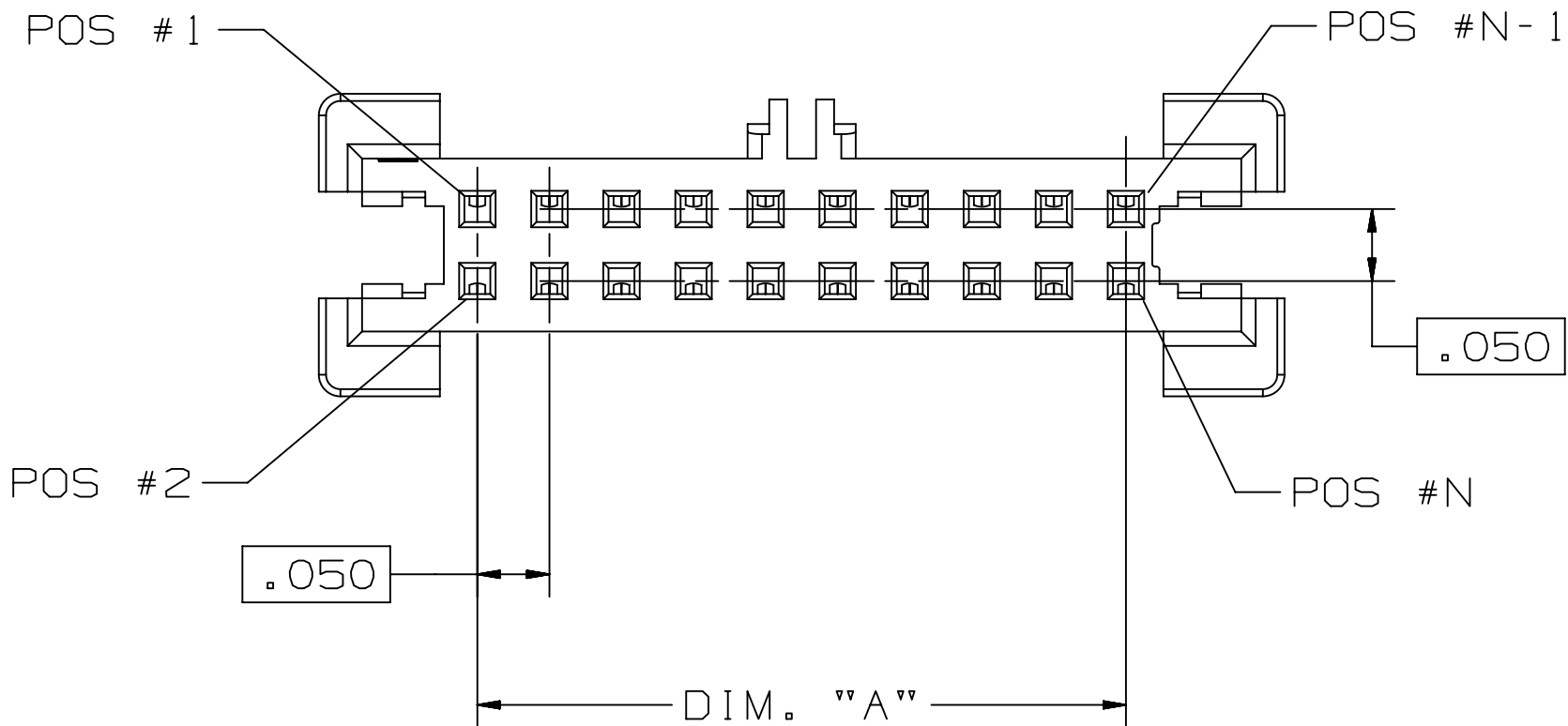
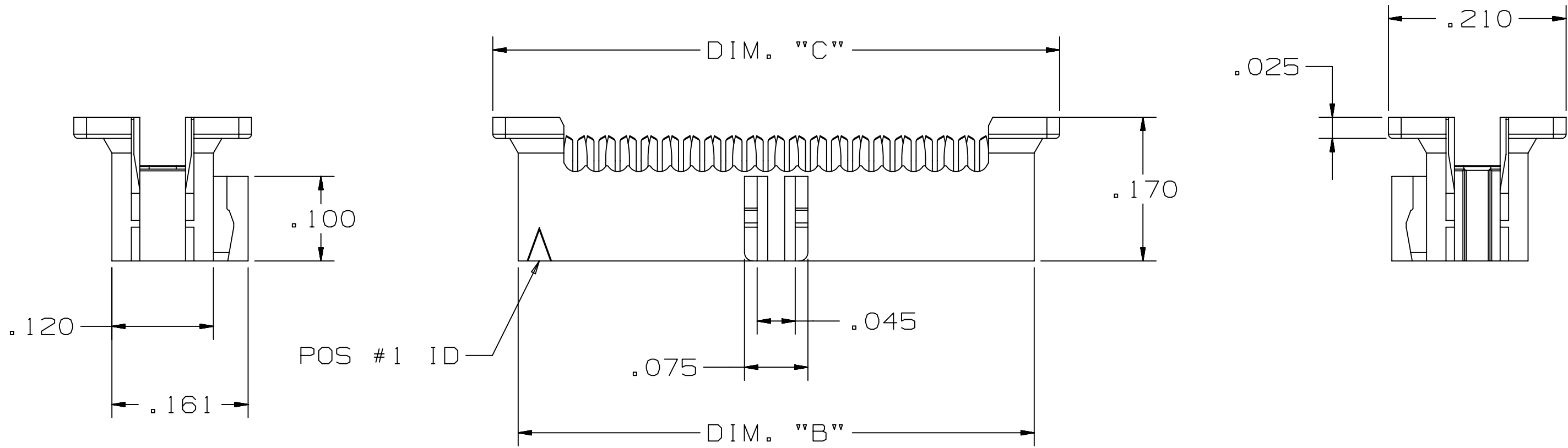
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78-5100-2396-9 78-5100-2437-1		A 46797		MAR 25, 2013		JNC SAN	
78-5100-2437-1		PRODUCTION RELEASE					
DIVISION REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION	
ACCESS CODES		DRAFT ARM		DATE FEB 11, 2011		MFG DATE	
		CHKD		DATE		APPROVAL SAN	
						DATE FEB 11, 2011	
DIVISION		DIVISION CODE		© 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		EMSD					
SCALE 6 1		TOLERANCES EXCEPT AS NOTED		3M 3M Center St., St. Paul, MN 55144			
		INCHES .0 .001 .002 .005 .010 .005		TITLE RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES			
THIRD ANGLE PROJECTION		MILLIMETERS 0 .0 .001 .005		CAGE NUMBER D 78-5100-2436-3			
INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS		DRAWING NO.			
☒ ALL SURFACES ☐ MARKED ONLY		ANGLES 1		REV. K			
				DET. LISTS YES YES NO SHT 1 OF 3			

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

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TITLE 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

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