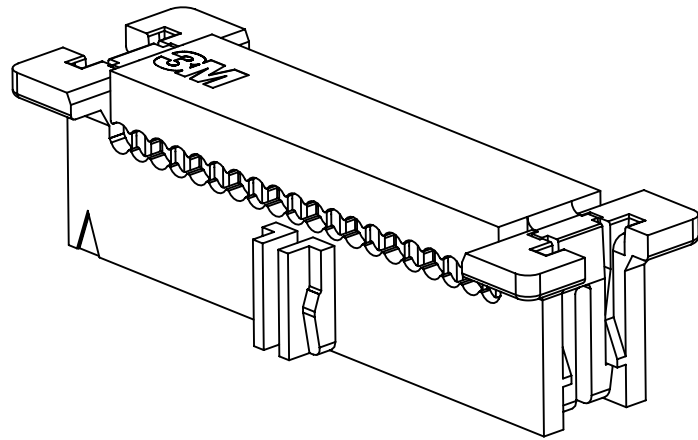
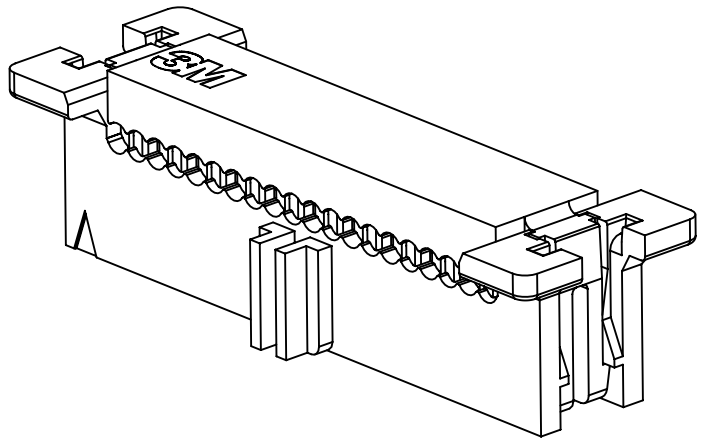


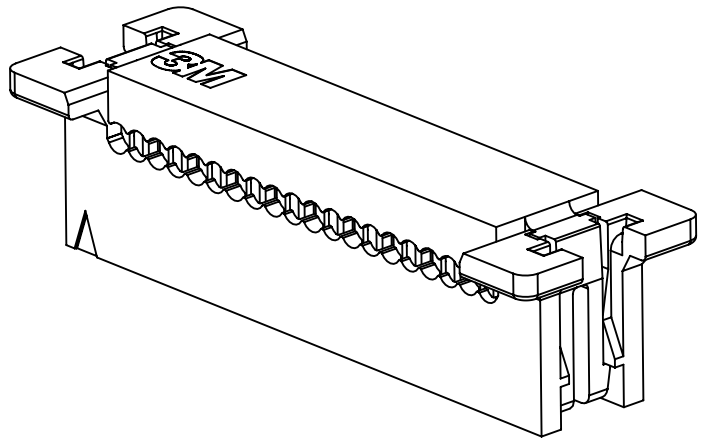
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



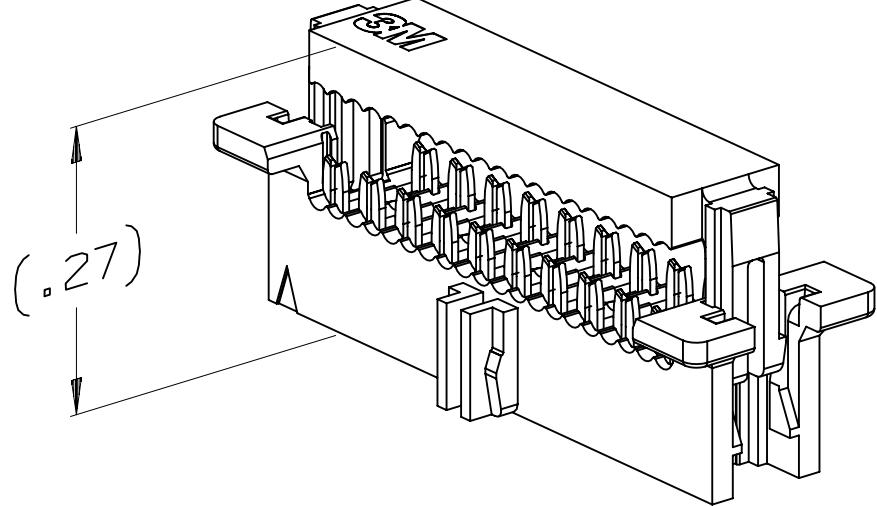
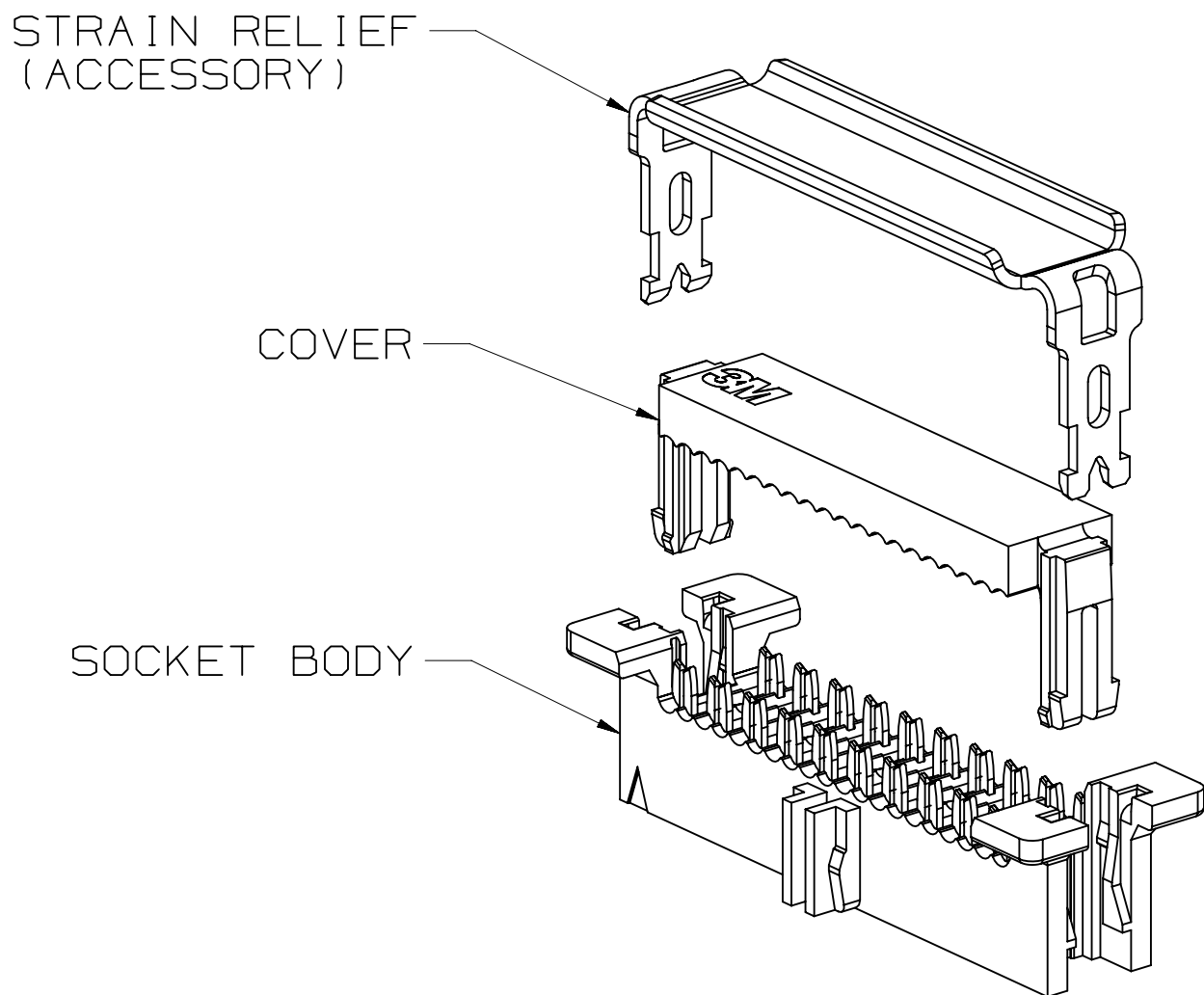
CENTER POLARIZATION
AND FRICTION LATCH



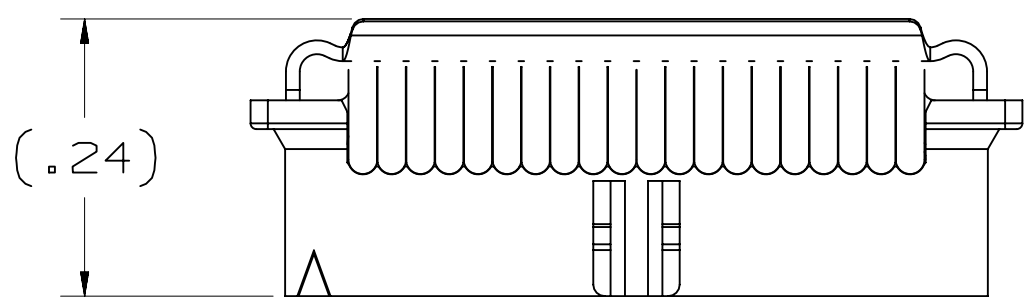
CENTER POLARIZATION
AND NO FRICTION LATCH



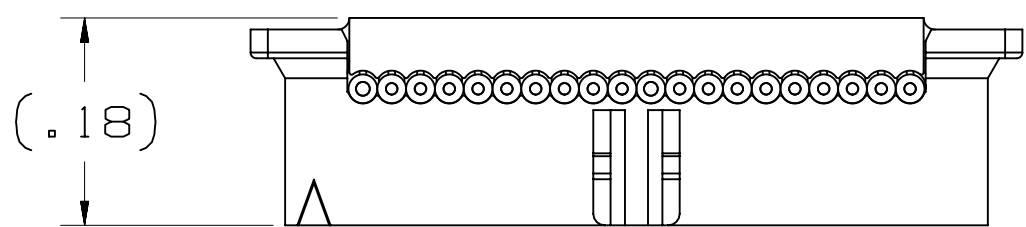
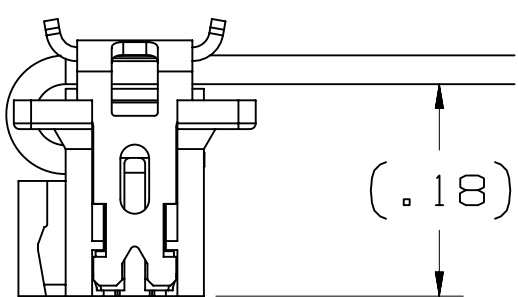
NO CENTER POLARIZATION
AND NO FRICTION LATCH



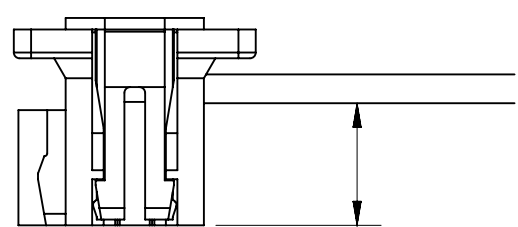
PRE-POSITIONED COVER



WITH OPTIONAL
STRAIN RELIEF



NO STRAIN RELIEF



TERMINATED
CONNECTOR

ORDERING INFORMATION
FOR RAPID INSTALLATION ON
RIBBON CABLE APPLICATIONS

451 XX - 0 X 0 0 XX
SERIES
POSITION COUNT
04 - 30
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) (04-30 POS.)
1 = CP NO FRICTION LATCH (08 - 30 POS.)
2 = CP WITH FRICTION LATCH (08 - 30 POS.)

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

ACCESSORY: STRAIN RELIEF
3448-451XX

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

POSITION COUNT
04 - 30

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E68080

PERFORMANCE:

CURRENT RATING: 1.0 A, ALL LINES ENERGIZED,
30°C TEMP RISE PER EIA 364-70
1.5 A, 6 LINES ENERGIZED,
30°C TEMP RISE PER EIA 364-70
2.5 A, 1 LINE ENERGIZED,
30°C TEMP RISE PER EIA 364-70
1.0 A, UL & CUL NOT FOR
CURRENT INTERRUPTION
UL & CUL VOLTAGE
RATING: 125V_{ac}
INSULATION
RESISTANCE: > 1 × 10⁹ Ohms AT 500 VDC
WITHSTANDING
VOLTAGE: 1250VACrms AT SEA LEVEL
OPERATING
TEMPERATURE: -65°C to +125°C
UL & CUL
OPERATING
TERMERATURE: +125°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 PVC, 30 AWG,
SOLID OR 7 STRAND.
RECOMMENDED:
3M 3447 AND 3754 SERIES
CABLE.
- 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

G	92270	AUG 19,2020	JNC	SAN
F	56988	SEP 24,2014	JNC	SN
E	54514	MAY 07,2014	SJS	SAN
D	51884	JAN 08,2014	SJS	SAN
C	50290	OCT 08,2013	JNC	SN
B	48635	JUL 12,2013	JNC	SN
A	46797	MAR 25,2013	JNC	SAN

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM	FEB 11,2011	MFG	DATE	
CHKD	DATE	APRVL	DATE	
		SAN	FEB 11,2011	

78-5100-2396-9
78-5100-2437-1

DESIGN REFERENCE
NEXT ASSEMBLY
DIVISION
SCALE
TOLERANCES
EXCEPT AS
NOTED

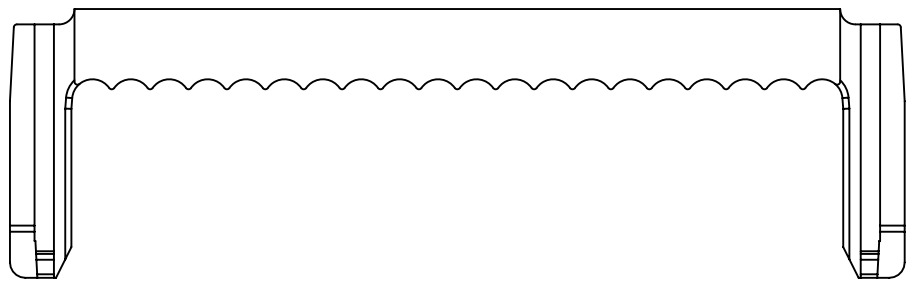
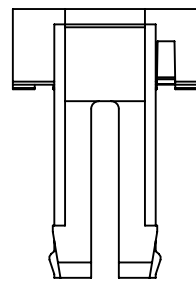
DO NOT
SCALE
DRAWING
THIRD ANGLE PROJECTION
INTERPRET PER
ASME Y14.5 - 2018
MAX SURFACE ROUGHNESS
UNLESS OTHERWISE SPECIFIED
MARKED ONLY

INCHES
±.1
±.02
±.010
±.005
MILLIMETERS
0
±.0
±.00
±.000

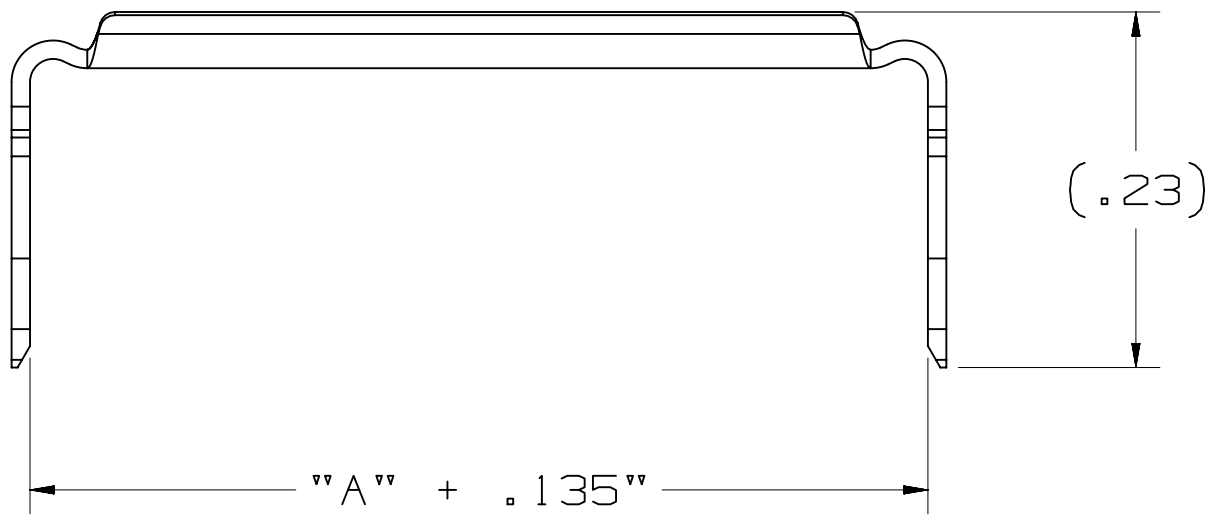
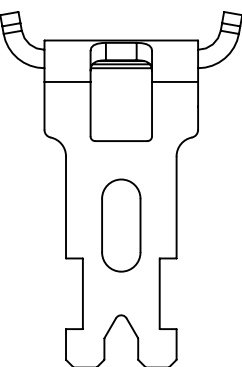
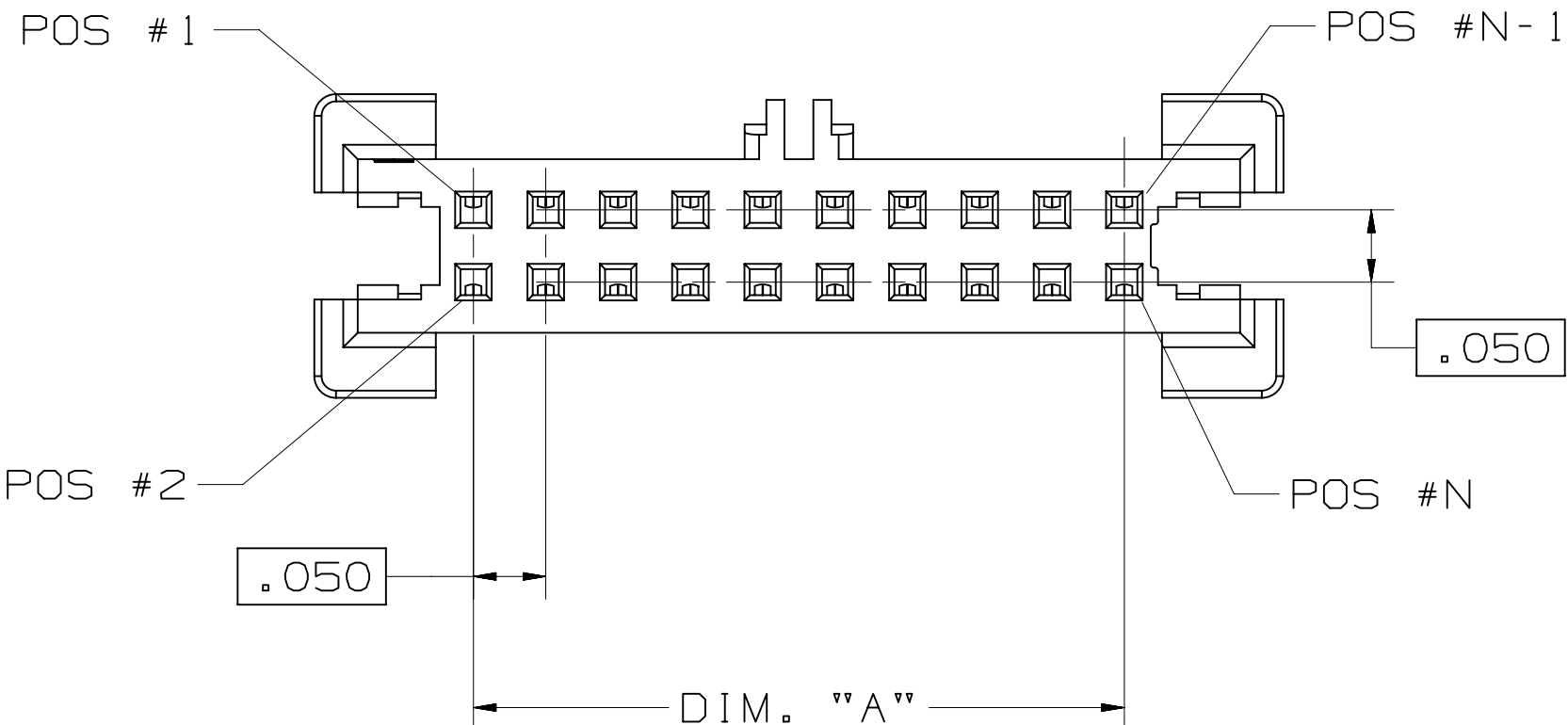
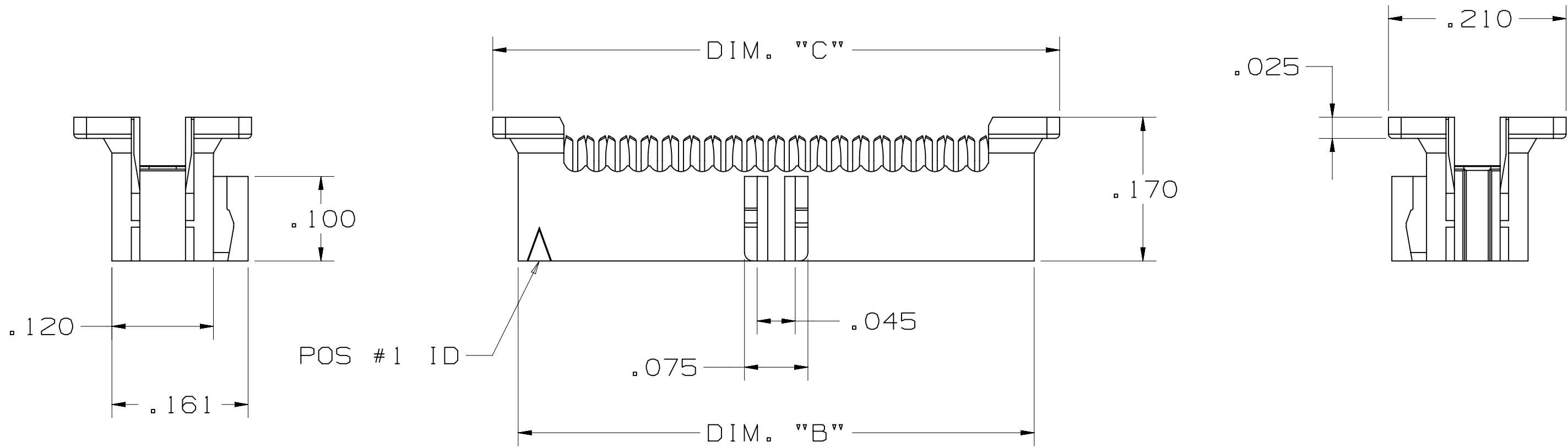
78-5100-2436-3
G

TITLE	RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES
CAGE NUMBER	78-5100-2436-3
SIZE	D
DRAWING NO.	78-5100-2436-3
REV.	G
MODEL	451
LISTS	YES
NO	
SHT	1 OF 2

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



COVER



ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

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

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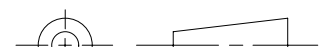
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Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

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
30	.700	.860	.920

78-5100-2396-9 78-5100-2437-1				PRODUCTION RELEASE							
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION				DRFT	CHKD
ADDRESS CODES				APP ARM	FEB 11, 2011				MFG	DATE	
				CHKD	DATE				APPROV SAN	DATE FEB 11, 2011	
DIVISION		DIVISION CODE EMSD		3M Center St. Paul, MN 55144				© 3M COPYRIGHT 2020 This document and the information it contains are 3M property and may not be reproduced or further distributed without written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED				TITLE RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES			
		THIRD ANGLE PROJECTION		INCHES +.0000 ± .02 +.0000 ± .010 +.0000 ± .005				CAGE NUMBER D 78-5100-2436-3			
INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS +.00 ± .005 +.00 ± .005 +.00 ± .005				DRAWING NO. 78-5100-2436-3			
MAX SURFACE ROUGHNESS ✓ □ MARKED ONLY				MODEL 451				REV. G			
				DET. LISTS				YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 2			

Mouser Electronics

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