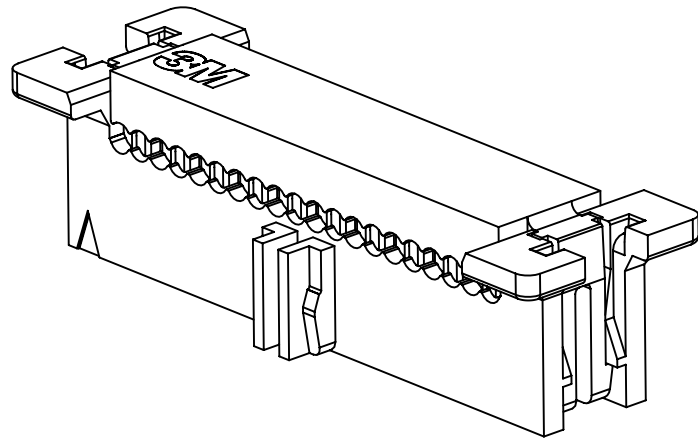
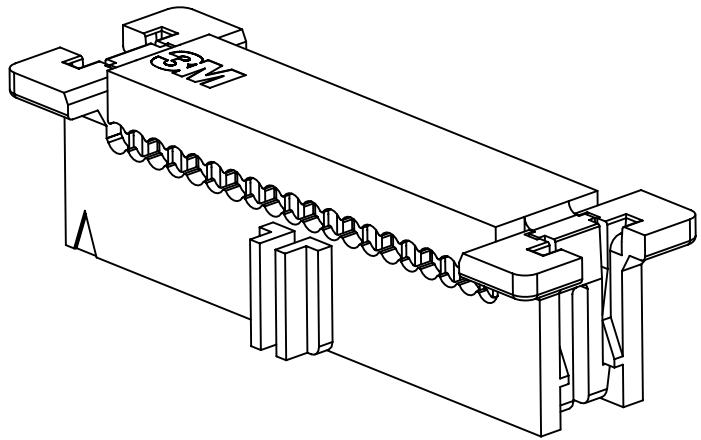


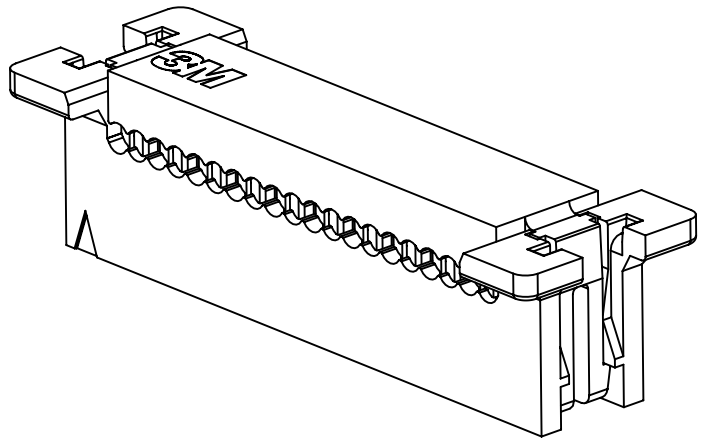
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



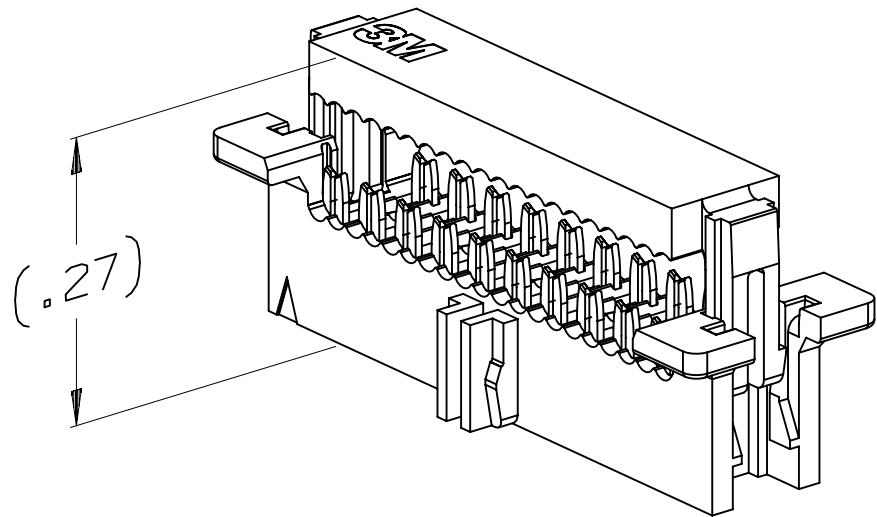
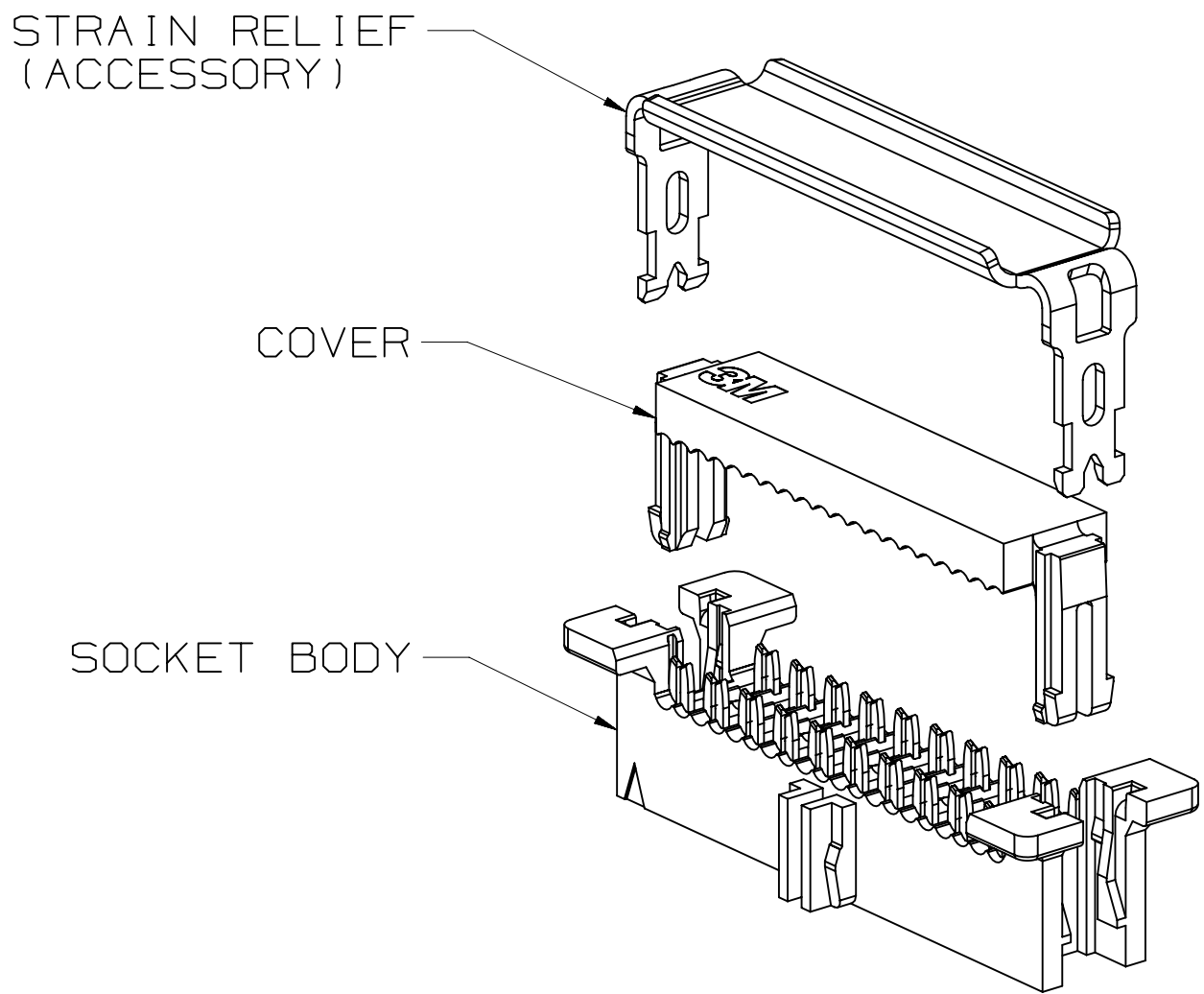
CENTER POLARIZATION
AND FRICTION LATCH



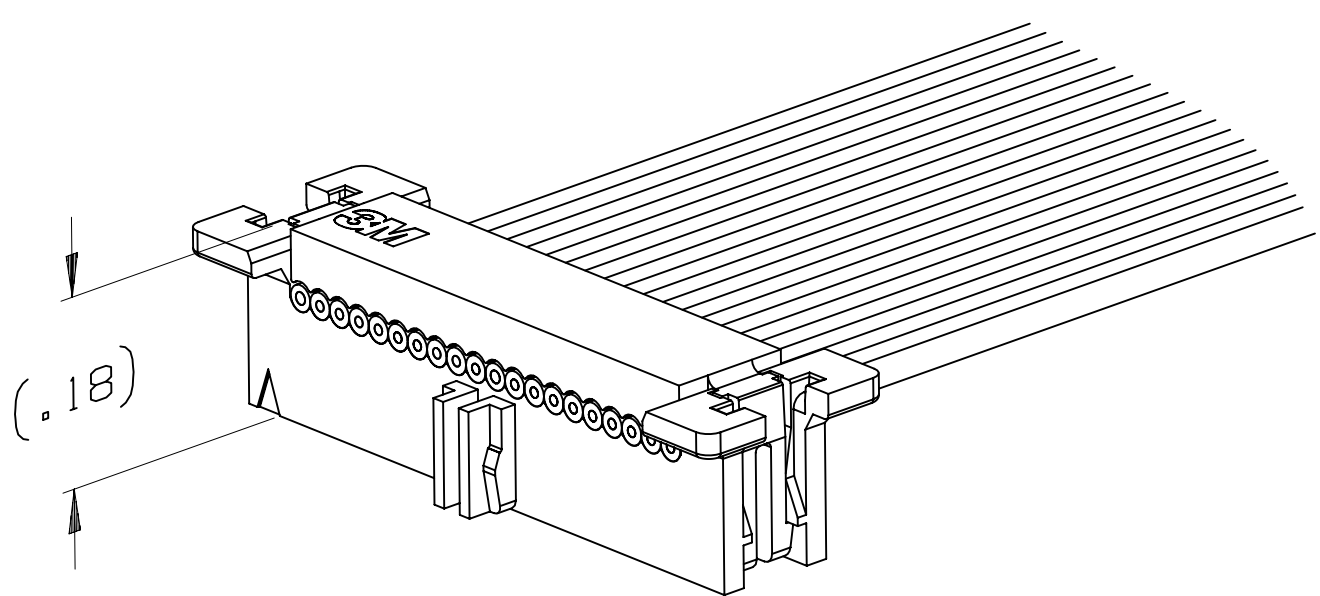
CENTER POLARIZATION
AND NO FRICTION LATCH



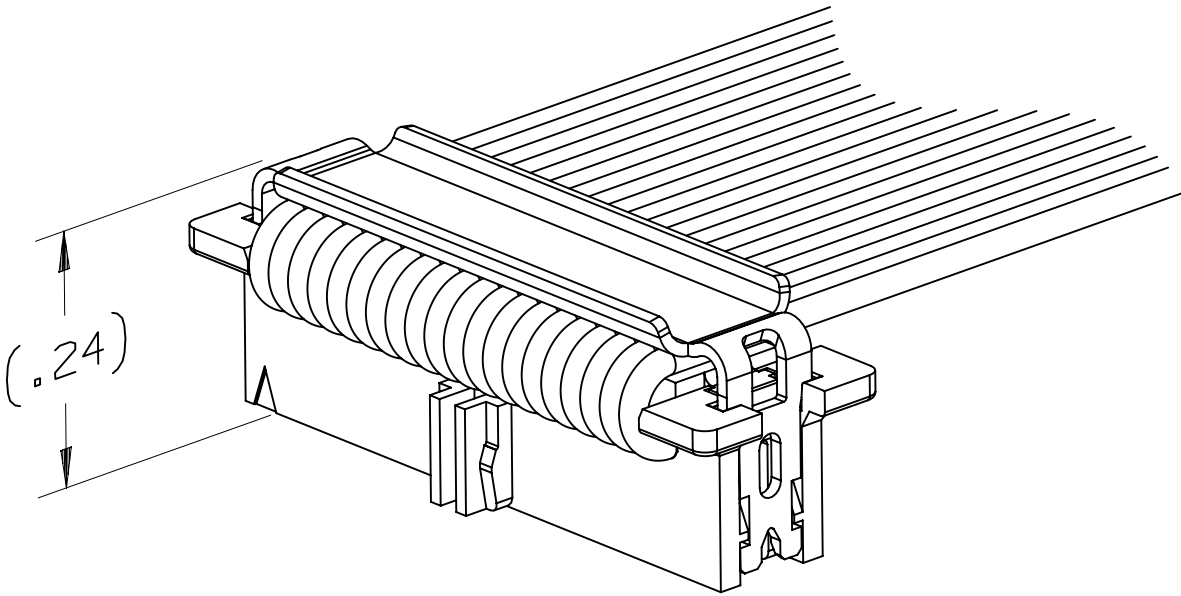
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

3M ELECTRONIC SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

Performance:	
Current Rating:	1.0 A, all lines energized, 30C temp rise per EIA 364-70 1.5 A, 6 lines energized, 30C temp rise per EIA 364-70 2.5 A, 1 line energized, 30C temp rise per EIA 364-70
Voltage Rating:	125V
Insulation Resistance:	> 1 × 10 ⁹ Ohms at 500 VDC
Withstanding Voltage:	1250VACrms at sea level
Operating Temperature:	-65°C to +105°C

ORDERING INFORMATION
FOR RAPID INSTALLATION ON
RIBBON CABLE APPLICATIONS

SERIES 451 XX - 0 X 0 0 XX
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

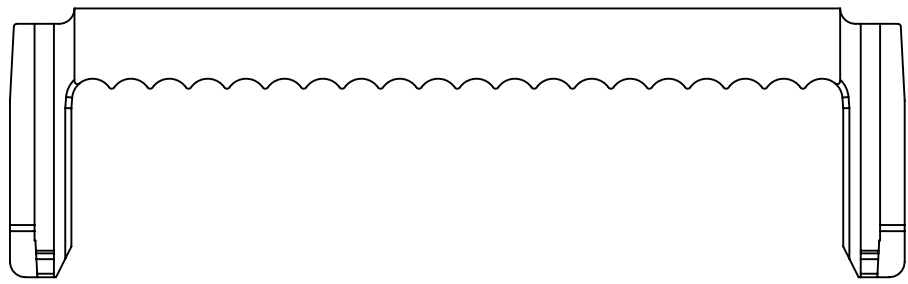
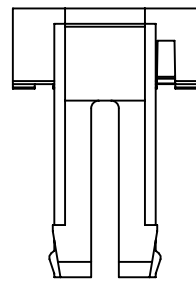
APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

POSITION COUNT
04 - 30

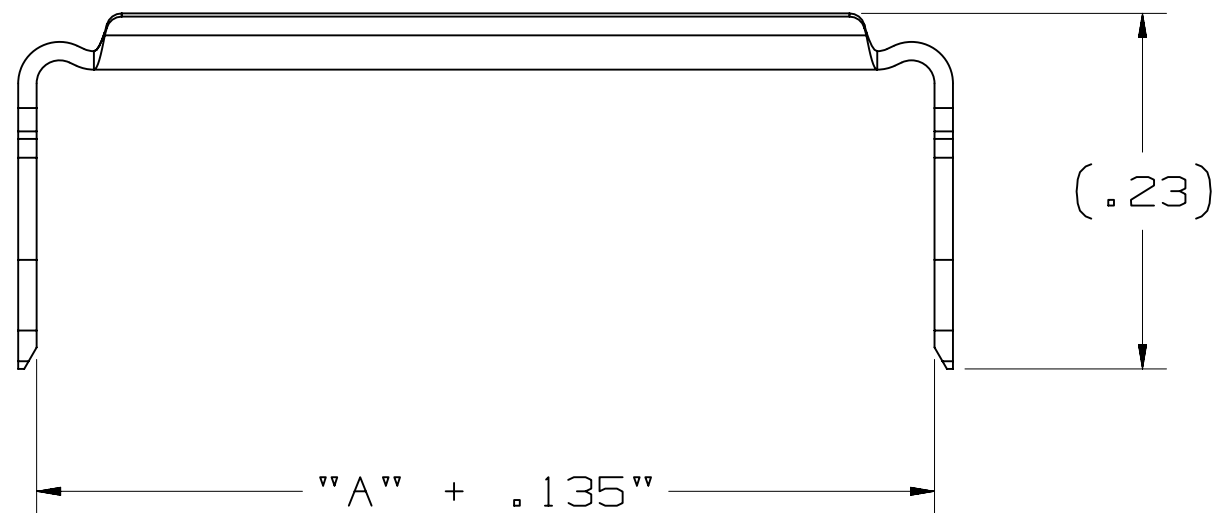
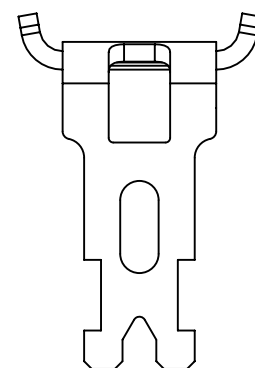
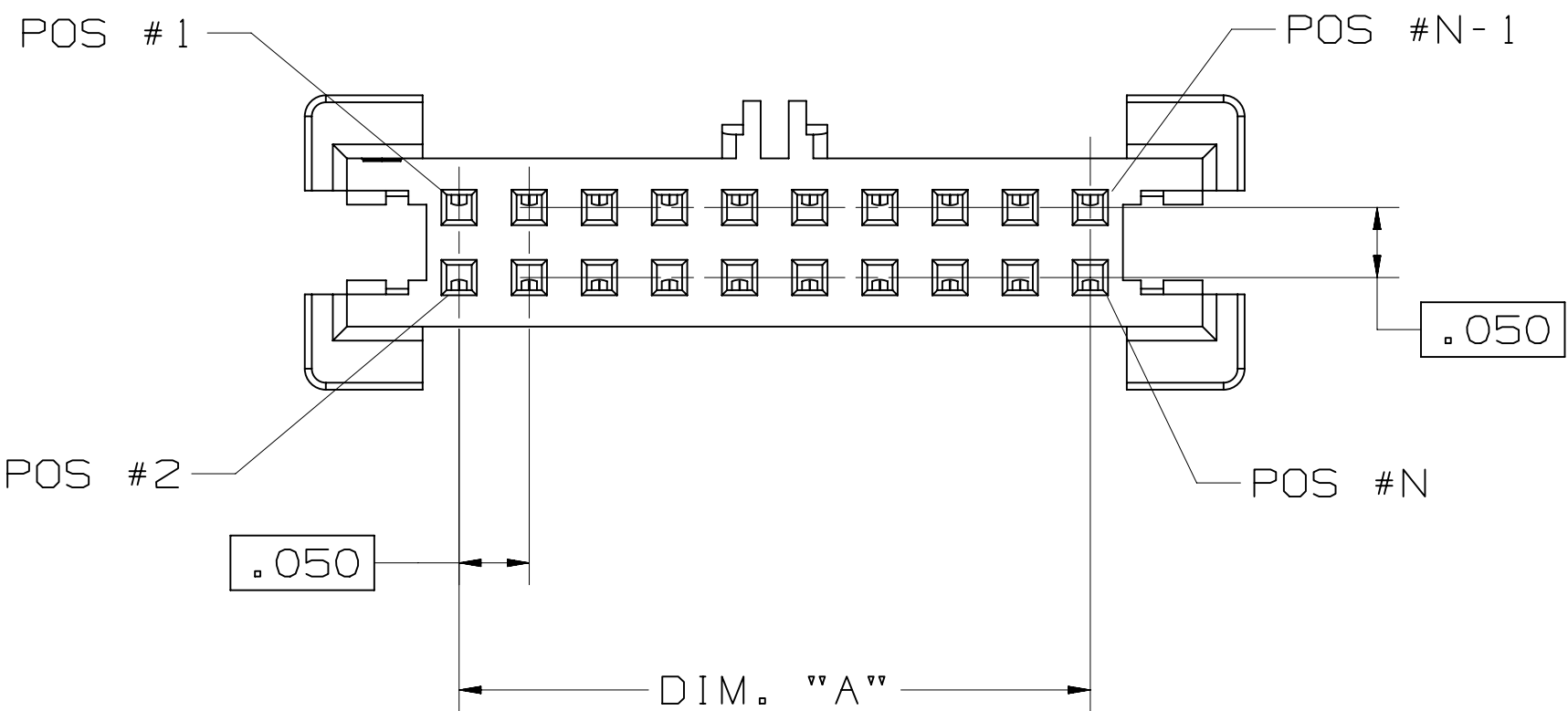
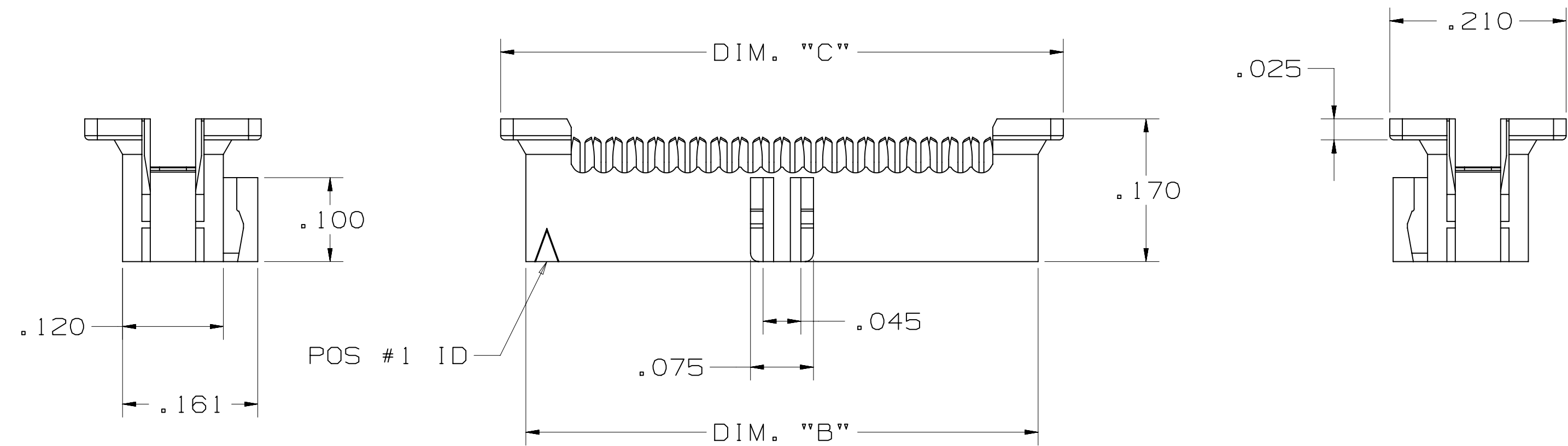
- NOTES
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS
STEEL
CONTACTS: BeCu ALLOY.
 - PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING
AREA
00 = FLASH GOLD ON WIPING AREA.
 - RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH PVC, 30 AWG,
SOLID OR 7 STRAND.
RECOMMENDED:
3M 3447 AND 3754 SERIES
CABLE.
 - MATING COMPATIBILITY:
3M 1.27mm (0.050"),
SERIES 452 HEADER WITH
LATCH/EJECT OPTION.
TECH SHEET 2437
 - REGULATORY INFORMATION:
ROHS COMPLIANT. SEE THE
REGULATORY INFORMATION
APPENDIX (RIA) IN THE
"ROHS COMPLIANCE" SECTION
OF WWW.3MCONNECTORS.COM
FOR COMPLIANCE INFORMATION
(RIA E1 & C1 APPLY)
 - 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

78-5100-2396-9 78-5100-2437-1		DESIGN REFERENCE		NEXT ASSEMBLY	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
51884		JAN 08,2014 ADD DESIGN REF, UPDATE TITLE, ADD TS	SJS	SAN	
50290		OCT 08,2013 REVISE NOTES 1, 3, 8 & OPERATING TEMP.	JNC	SN	
48635		JUL 12,2013 MATCH TEXT FONTS & ADD NOTE 10	JNC	SN	
46797		MAR 25,2013 PRODUCTION RELEASE	JNC	SAN	
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
ARM		FEB 11,2011			
CHKD		DATE	APRVL	DATE	
			SAN	FEB 11,2011	
DIVISION		3M Center		3M	
Interconnect Solutions		ISD		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 6 1		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES ±.1 ±.02 ±.010 ±.005		MILLIMETERS ± ± ± ±	
INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS 12.5 SURFACES ✓ MARKED ONLY		CAGE NUMBER D 78-5100-2436-3	
				MODEL 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

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

DESIGN REFERENCE NEXT ASSEMBLY

ARM FEB 11,2011

CHKD DATE

APPROVAL SAN FEB 11,2011

DIVISION CODE

Interconnect Solutions ISD

DO NOT SCALE DRAWING

SCALE 4 1

TOLERANCES EXCEPT AS NOTED

INCHES .00 .01 .02 .000 .010 .0000 .005

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS

DT SURFACES MARKED ONLY

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
CHKD	DATE	APPROVAL	DATE	DATE
CHKD	DATE	APPROVAL	DATE	DATE

3M Center St. Paul, MN 55144

TITLE
RIBBON CABLE SOCKET,
.05 X .05 PITCH, 451
SERIES

CAGE NUMBER D 78-5100-2436-3

MODEL

DET LISTS YES NO SHT 2 OF 2