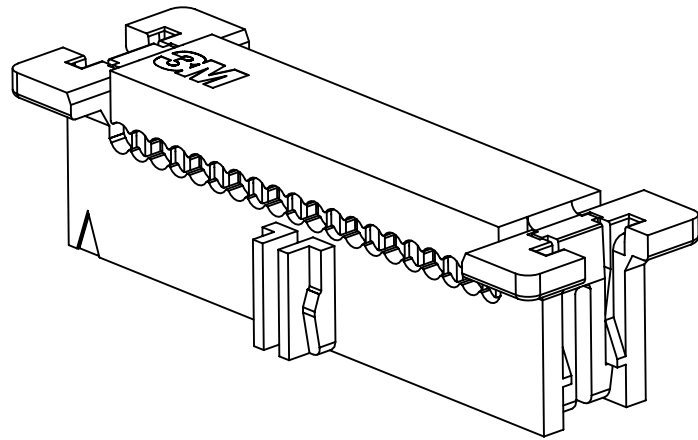
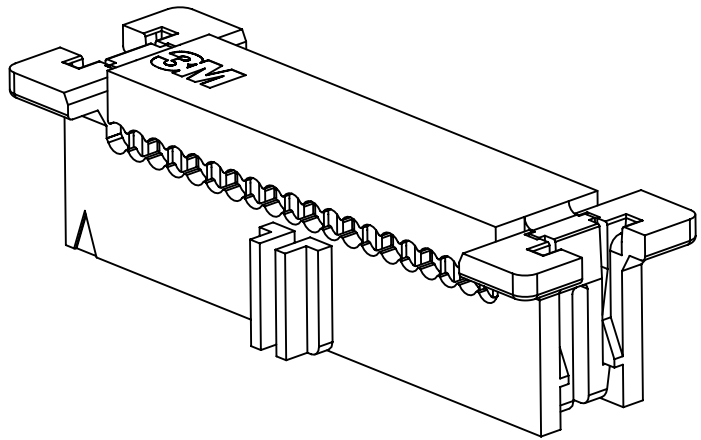


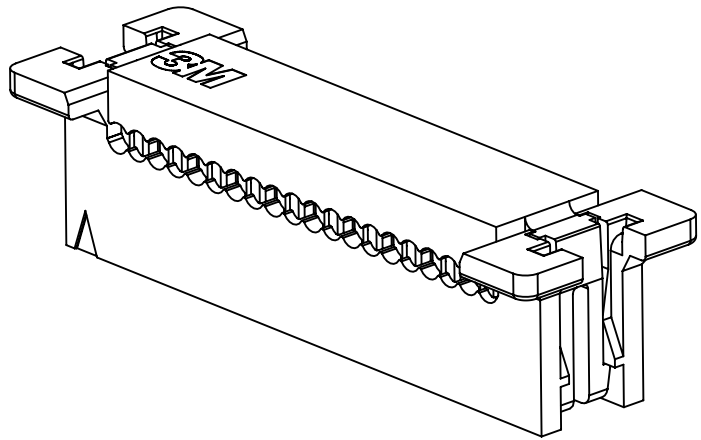
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



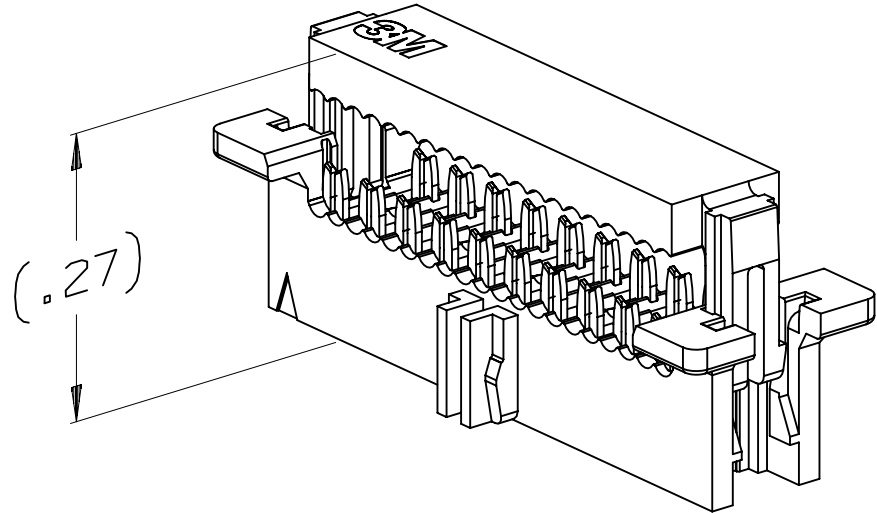
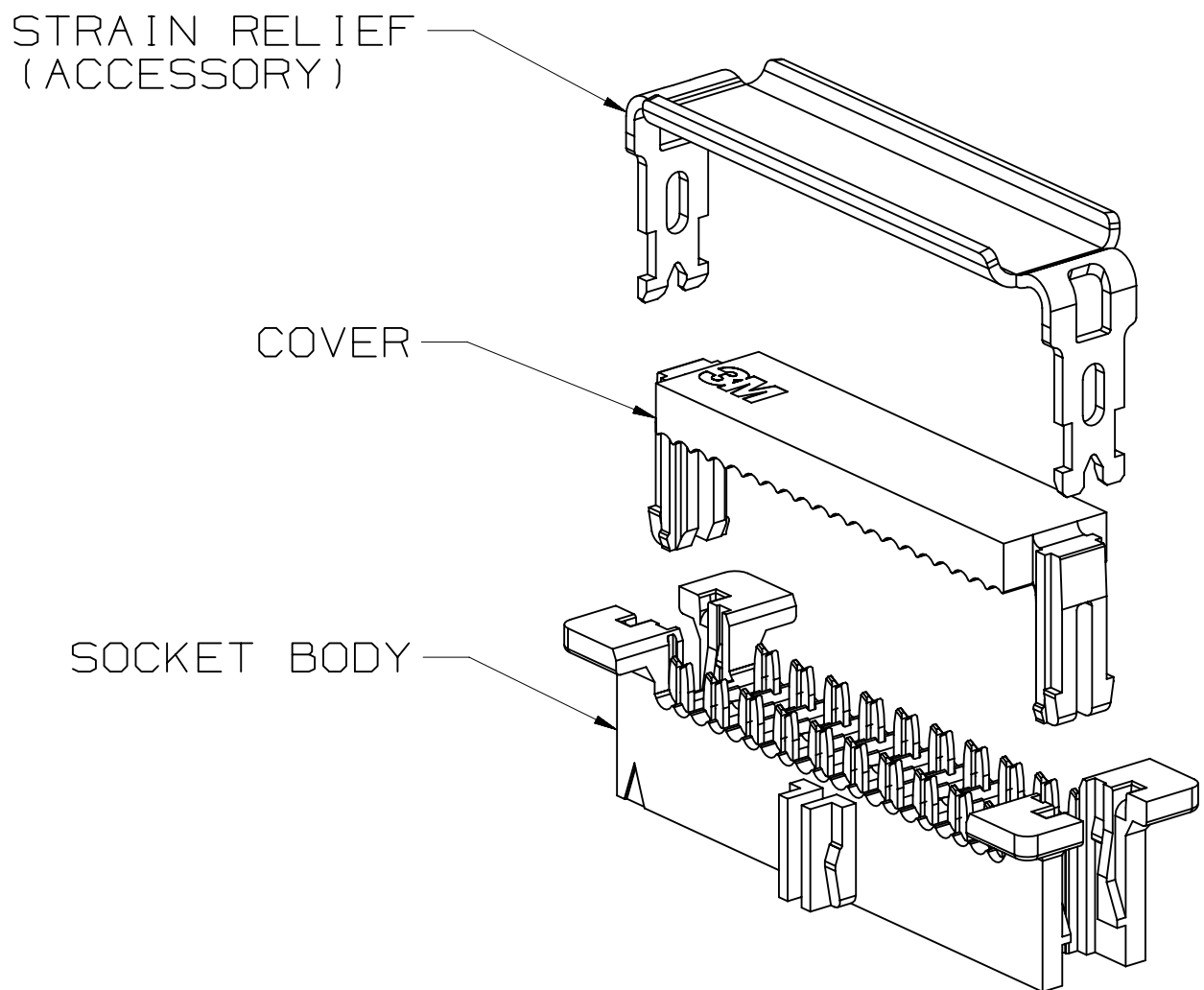
CENTER POLARIZATION
AND FRICTION LATCH



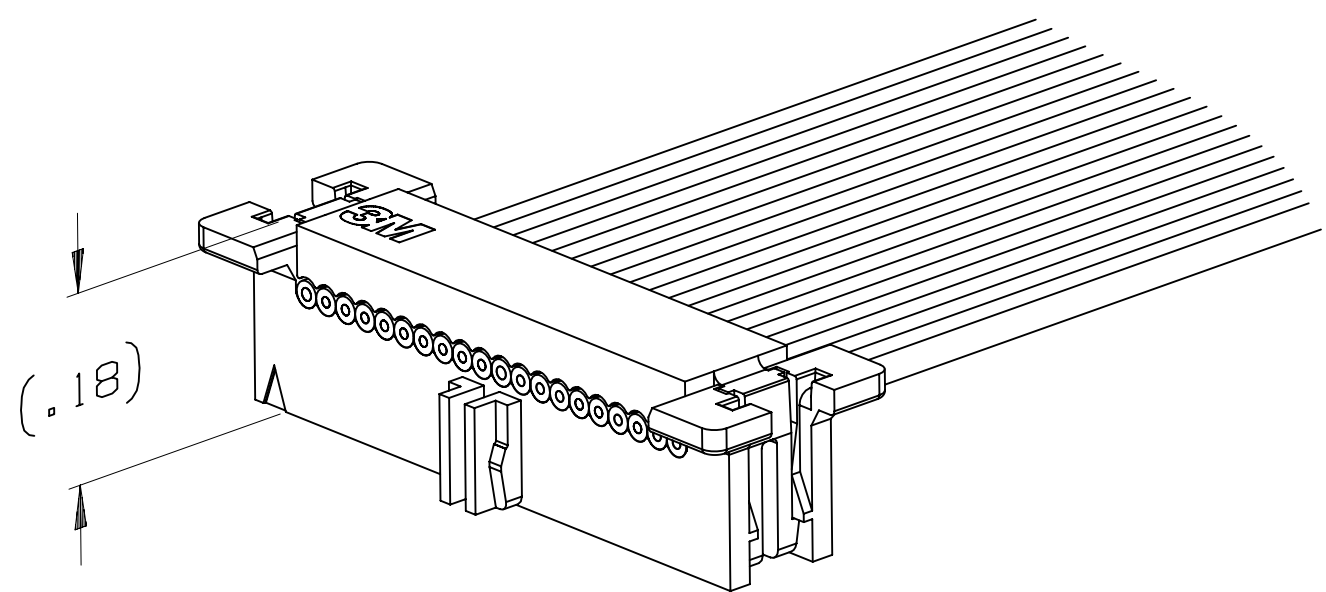
CENTER POLARIZATION
AND NO FRICTION LATCH



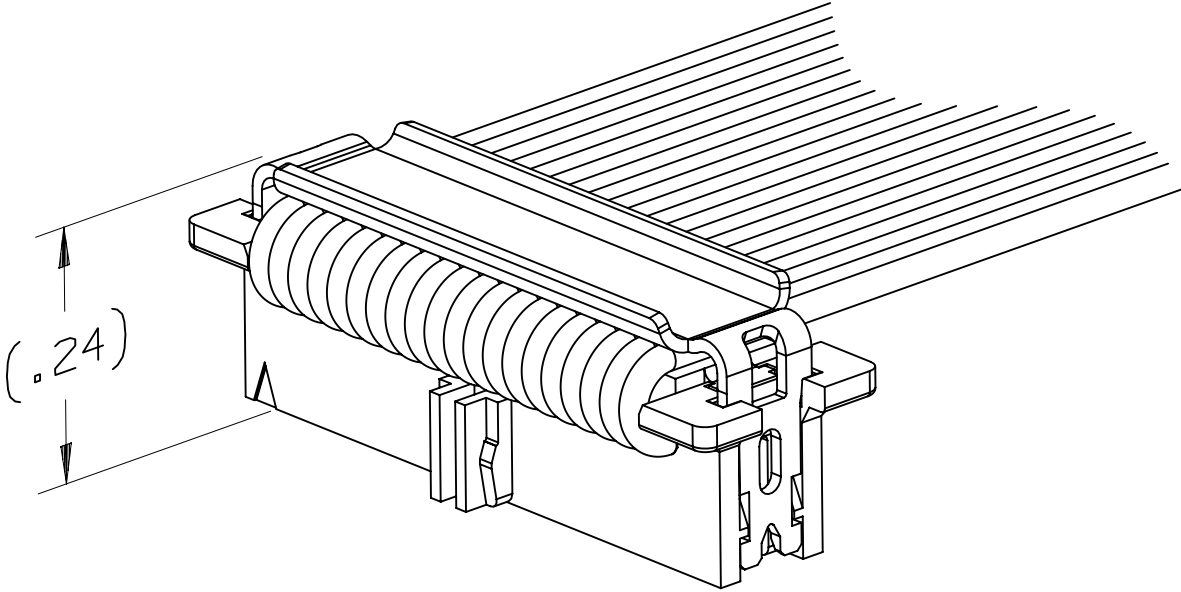
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

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

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INFORMATION CALL 800-225-5373

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 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	1250VACrms AT SEA LEVEL
OPERATING TEMPERATURE:	-65°C to +125°C
UL & CUL OPERATING TEMPERATURE:	+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 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

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

POSITION COUNT
04 - 30

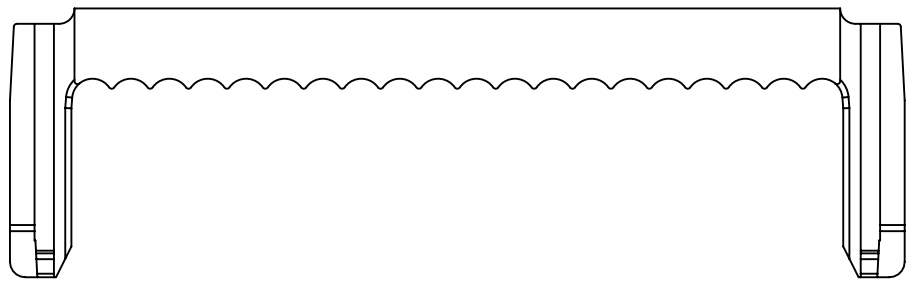
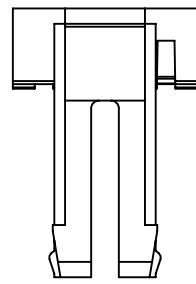
APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

POSITION COUNT
04 - 30

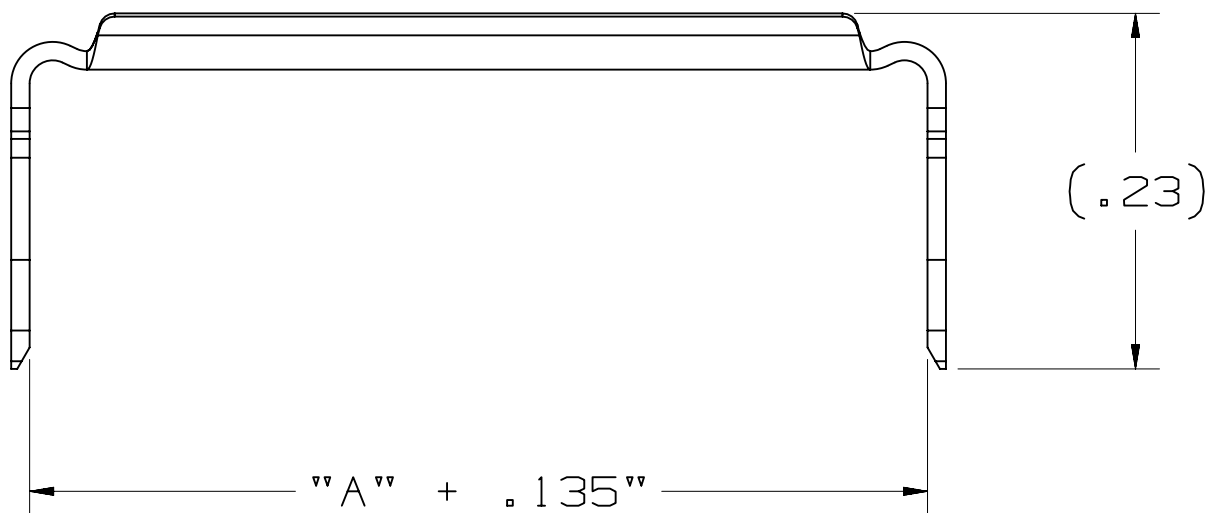
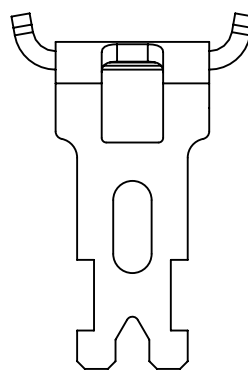
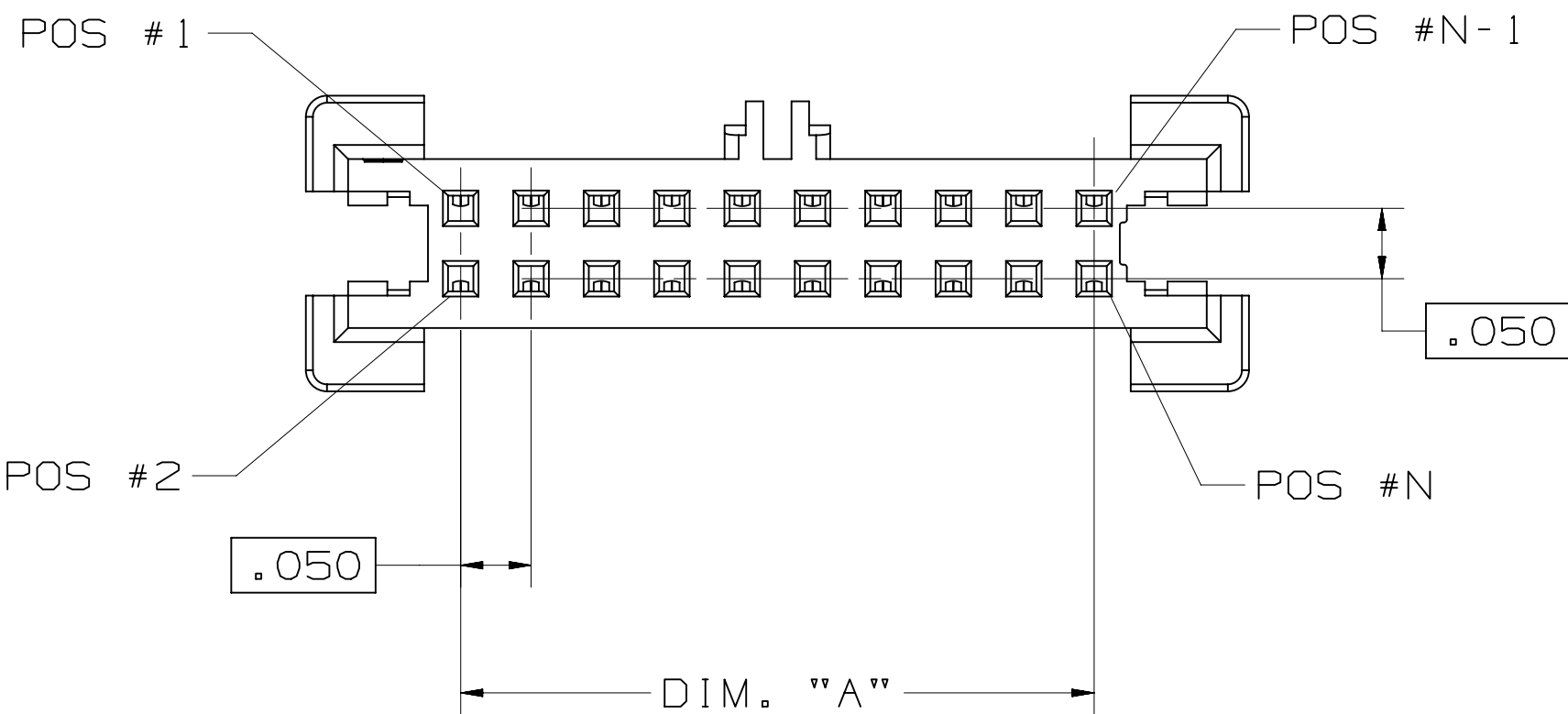
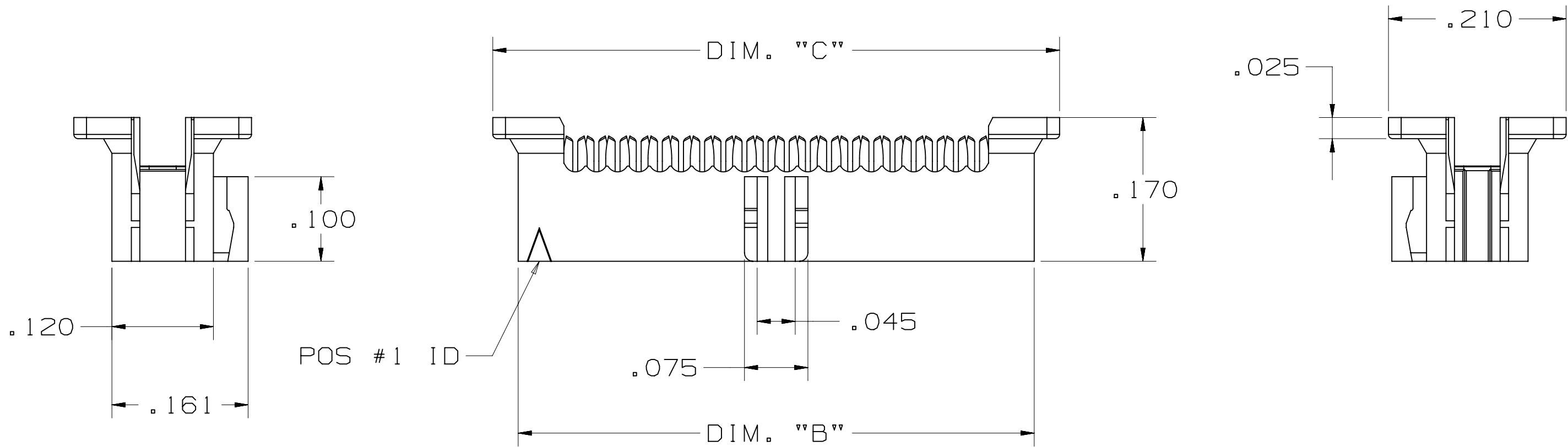
78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DESIGN CODES		DIVISION CODE		ARM	FEB 11, 2011	MFG	DATE	DATE
DIVISION		INTERCONNECT SOLUTIONS		ISD	DATE	APPROVAL	DATE	DATE
DO NOT SCALE DRAWING		SCALE 6-1		TOLERANCES EXCEPT AS NOTED		3M		
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES .00 ± .01 .000 ± .010 .0000 ± .005		© 3M COPYRIGHT 2014		
MAX SURFACE ROUGHNESS		MILLIMETERS 0 ± .00 .00 ± .000		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.		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES		
MARKED ONLY		CAGE NUMBER		SIZE	DRAWING NO.	REV.	DATE	DATE
		D			78-5100-2436-3	F	DATE	DATE
		MODEL		LISTS		YES NO		SHT 1 OF 2

UL FILE NO: E68080

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				PRODUCTION RELEASE	
DESIGN REFERENCE		NEXT ASSEMBLY		REV. ECO	
DESIGN CODES		DESIGN CODES		ISSUE DATE AND DESCRIPTION	
				ARM FEB 11,2011	
				MFG DATE	
				CHKD DATE	
				APPROVAL SAN DATE FEB 11,2011	
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2014	
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DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		3M 3M Center St. Paul, MN 55144	
SCALE 4 1		INCHES .00 +.01 -.02 +.0000 +.010 +.005		TITLE RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES	
THIRD ANGLE PROJECTION		MILLIMETERS 0 +		CAGE NUMBER D78-5100-2436-3	
INTERPRET PER ASME Y14.5 - 2009		SURFACES .00 +.00 +.000 +		SIZE DRAWING NO.	
MAX SURFACE ROUGHNESS		ANGLES		REV. F	
✓ □ MARKED ONLY				DET. LISTS YES X NO	
				SHT 2 OF 2	