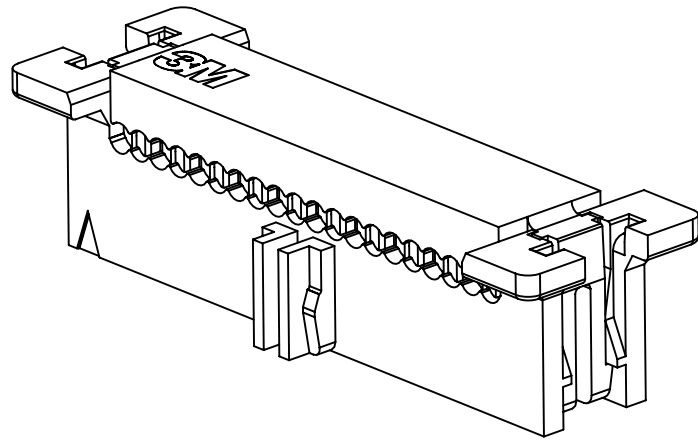
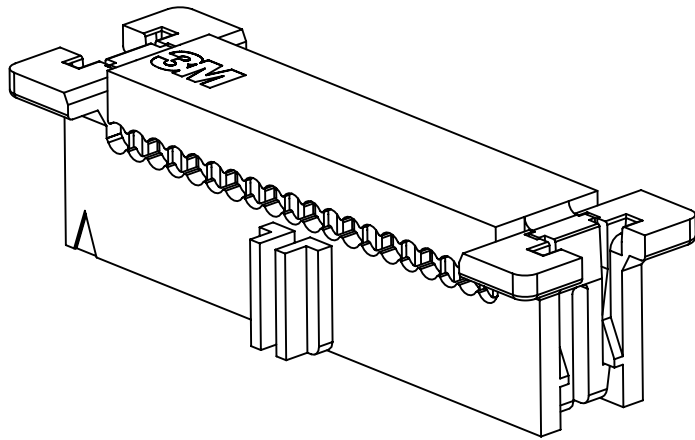


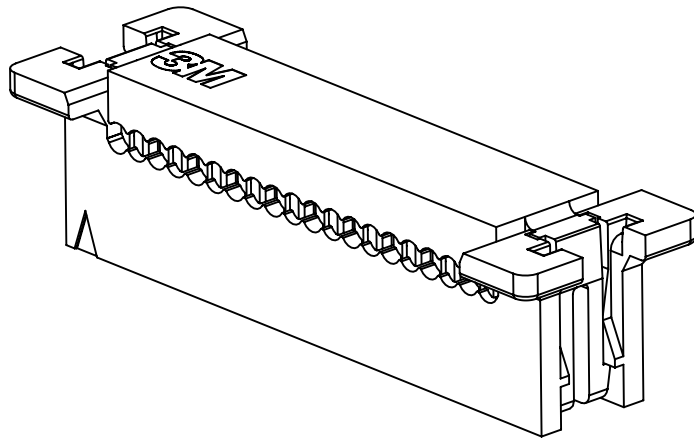
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
.05" X .05" (1.27mm X 1.27mm) PITCH, 451 SERIES



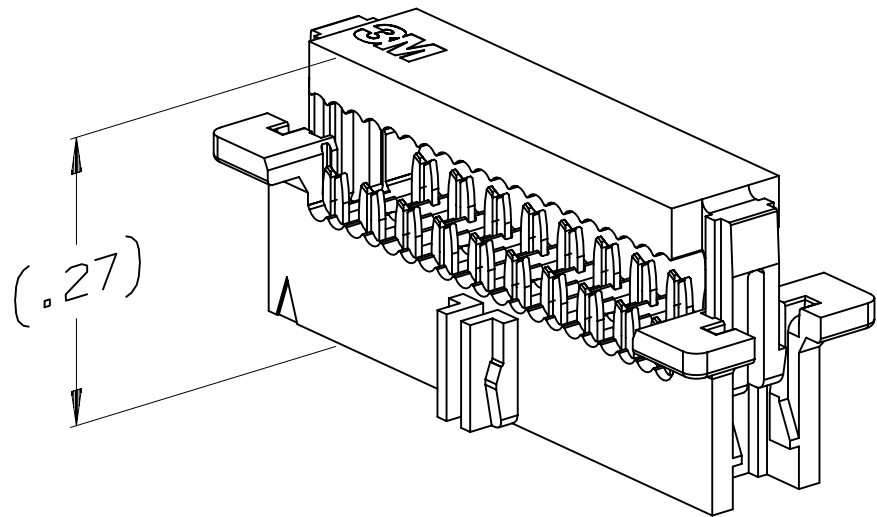
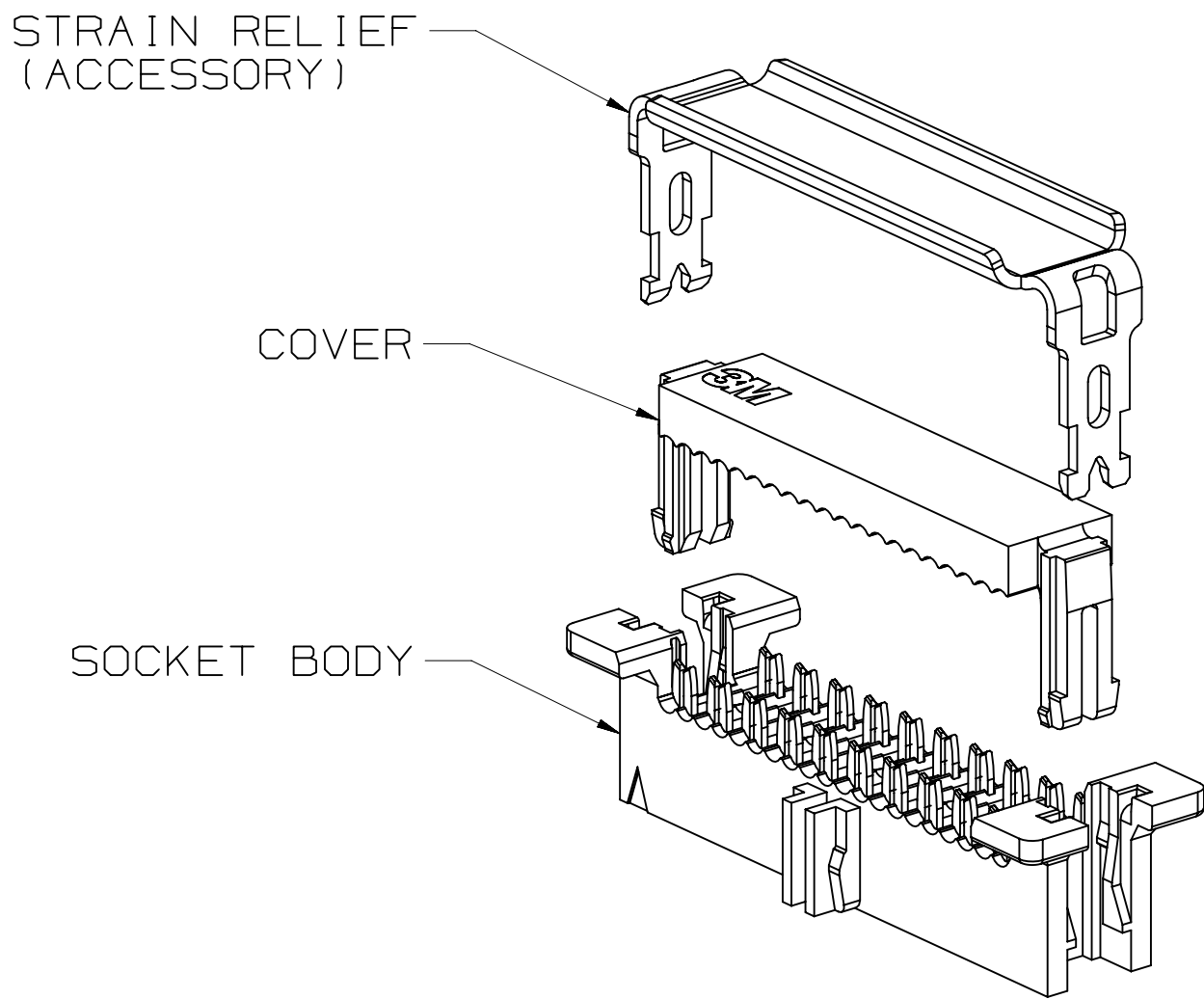
CENTER POLARIZATION
AND FRICTION LATCH



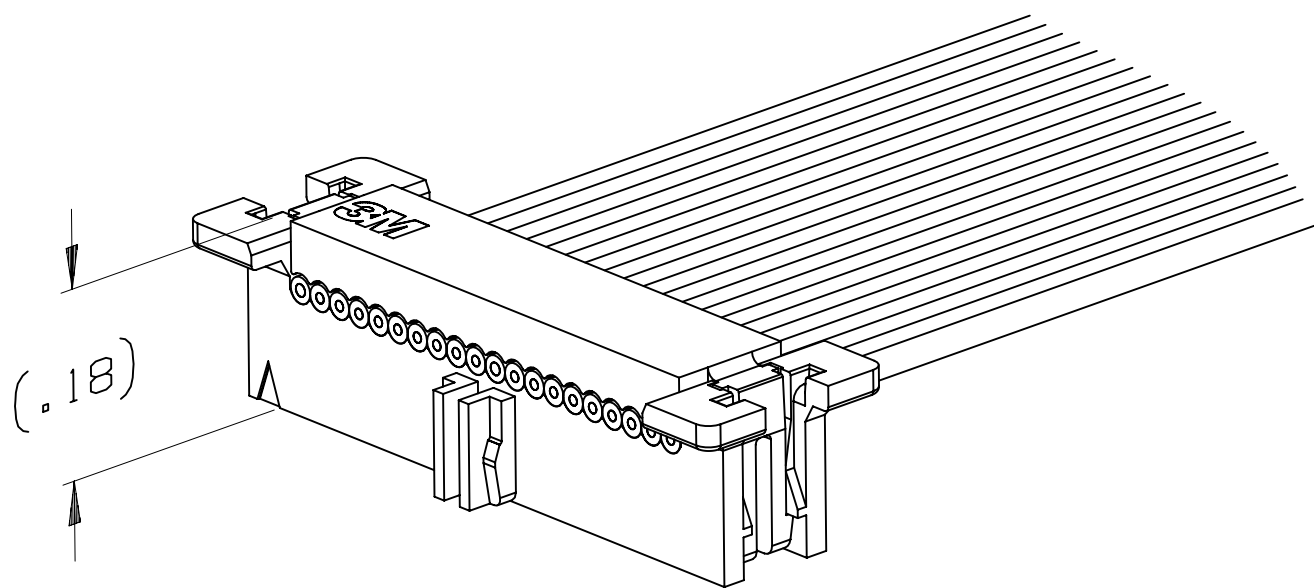
CENTER POLARIZATION
AND NO FRICTION LATCH



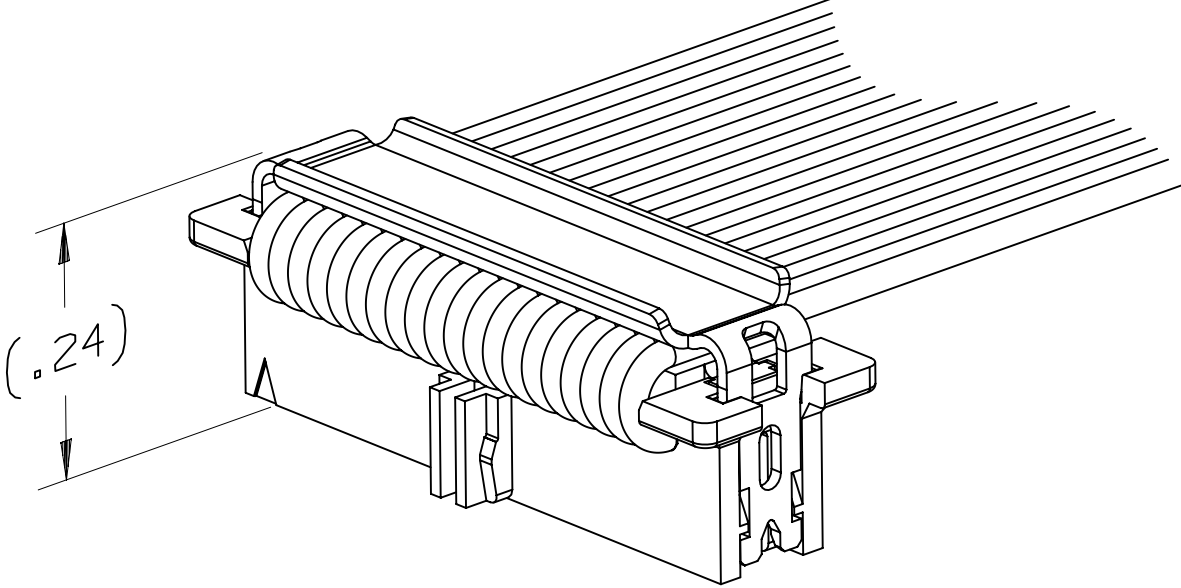
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

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

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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

- NOTES
1. MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS STEEL
CONTACTS: BeCu ALLOY.

2. PLATING:
50-150µ" NICKEL UNDERPLATE
30 = 30µ" MIN. GOLD ON WIPING AREA
00 = FLASH GOLD ON WIPING AREA.

3. RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH PVC, 30 AWG, SOLID OR 7 STRAND.
RECOMMENDED:
3M 3447 AND 3754 SERIES CABLE.

4. MATING COMPATIBILITY:
3M .050" X .050" SERIES 452 HEADER WITH LATCH/EJECT OPTION.

5. 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)

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

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

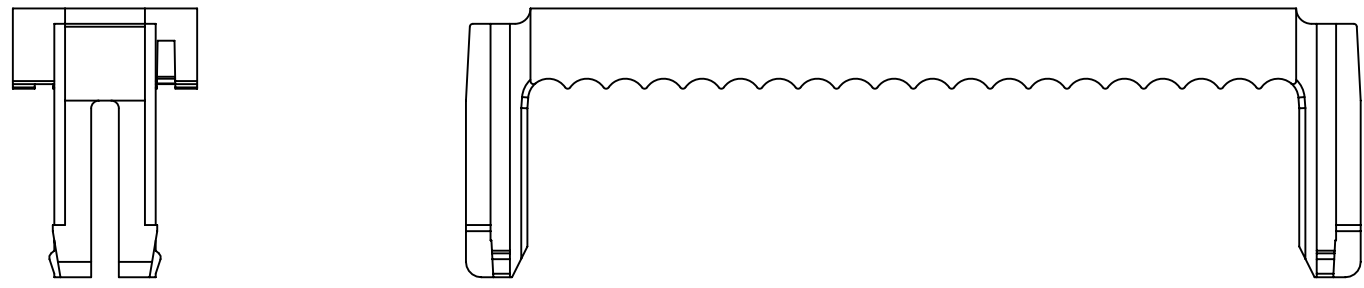
POSITION COUNT
04 - 30

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

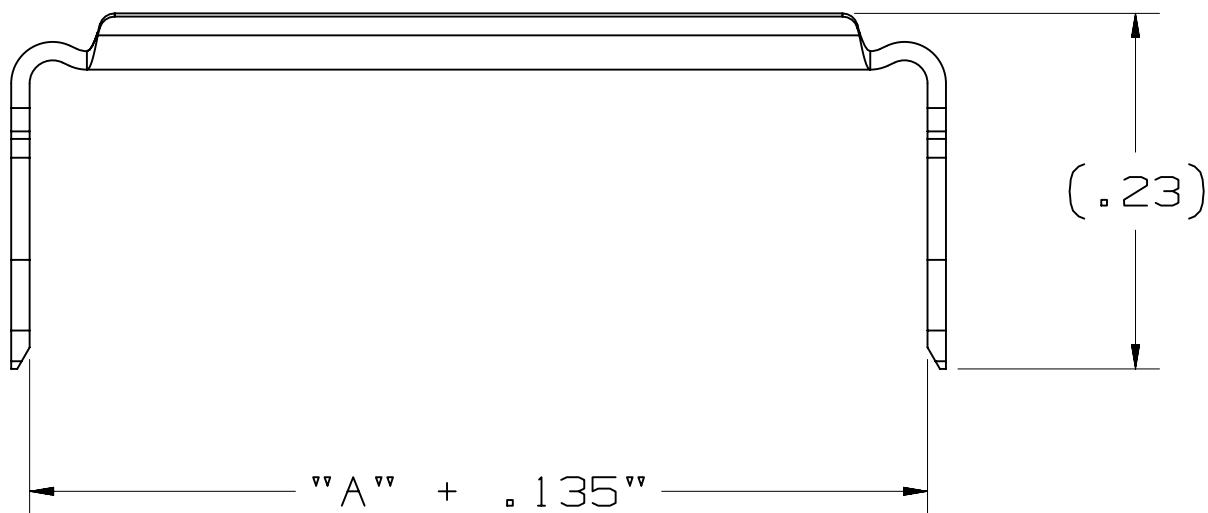
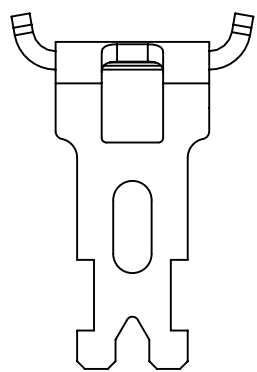
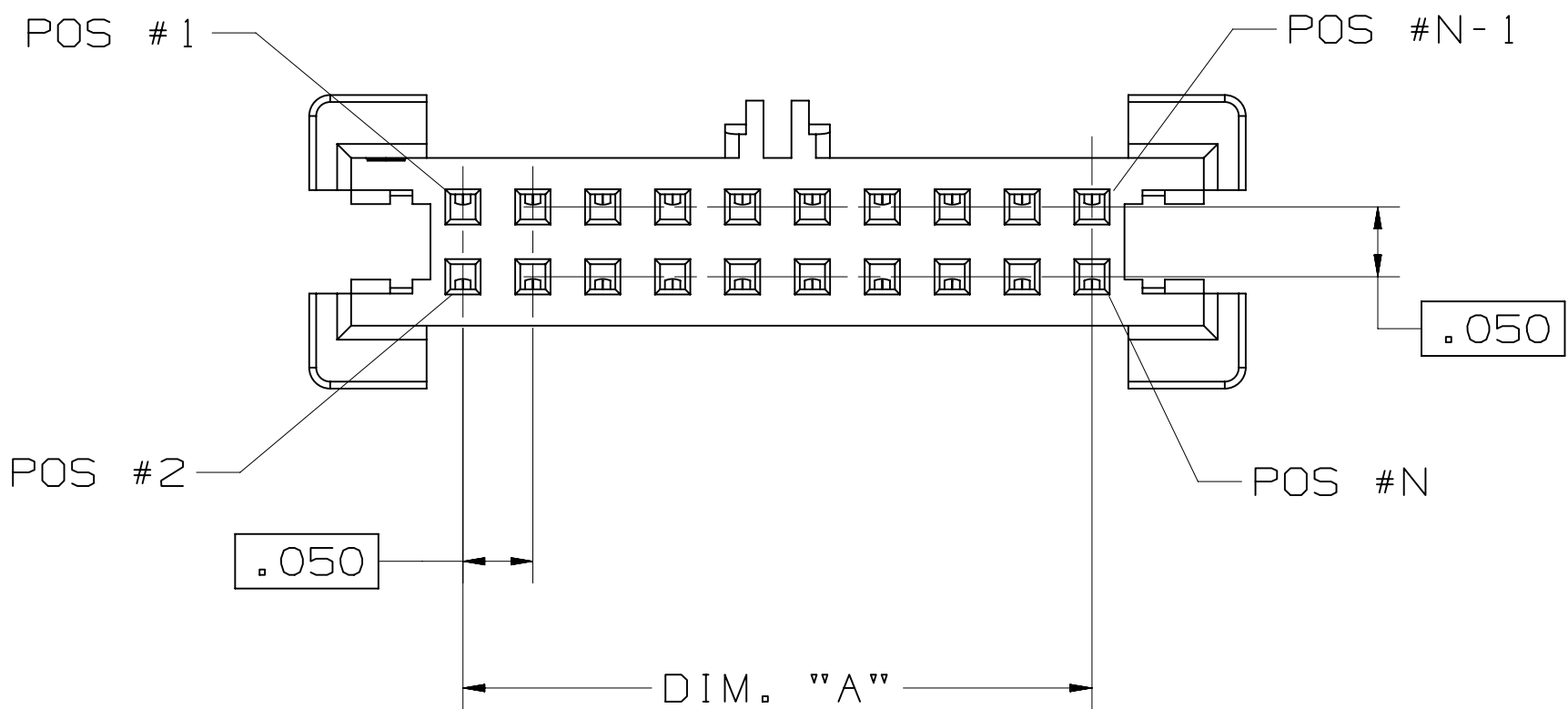
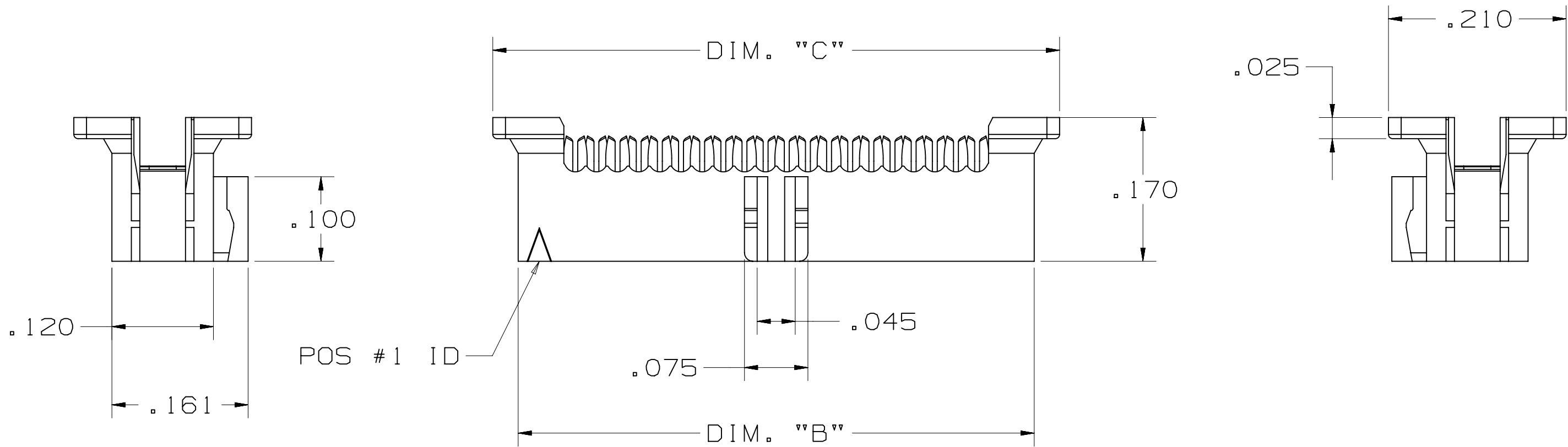
POSITION COUNT
04 - 30

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ARM	CODES	ARM	CODES	ARM	CODES	DATE	DATE	DATE	DATE
ARM	CODES	ARM	CODES	ARM	CODES	FEB 11, 2011	FEB 11, 2011	FEB 11, 2011	FEB 11, 2011
DIVISION		DIVISION CODE		3M		© 3M COPYRIGHT 2013			
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DO NOT SCALE DRAWING		SCALE 6-1		TOLERANCES EXCEPT AS NOTED		TITLE			
THIRD ANGLE PROJECTION		INCHES .00 ± .01 .00 ± .02 .000 ± .010 .0000 ± .005		MILLIMETERS 0 ± .00 ± .00 ± .000		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES			
MAX SURFACE ROUGHNESS		INTERPRET PER ASME Y14.5 - 1994		CAGE NUMBER		DRAWING NO. 78-5100-2436-3			
MARKED ONLY		ANGLES		MODEL		REV. C			
						SHT 1 OF 2			

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
.05" X .05" (1.27mm X 1.27mm) 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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ARM		FEB 11, 2011		ARM	CHKD	DATE	DATE	DATE	DATE
DIVISION		DIVISION CODE		3M Center		St. Paul, MN 55144		© 3M COPYRIGHT 2013	
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.		3M		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES	
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		INCHES .00 .01 .02 .000 .010 .0000 .005		MILLIMETERS 0 .0 .00 .000 .005	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		CAGE NUMBER		DRAWING NO.	
MARKED ONLY		SURFACES		MODEL		D 78-5100-2436-3		REV. C	
								SHT 2 OF 2	