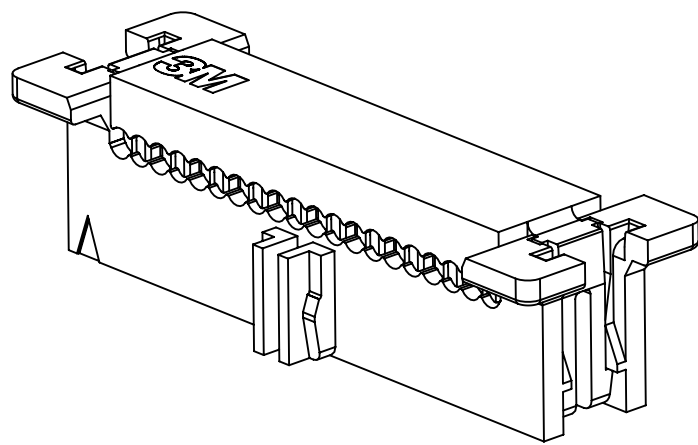
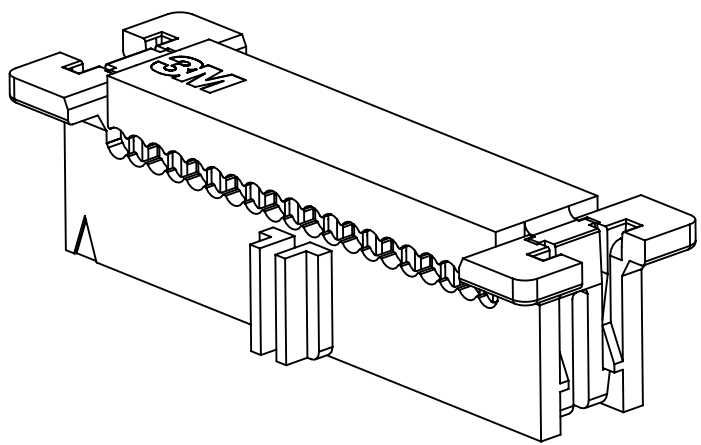


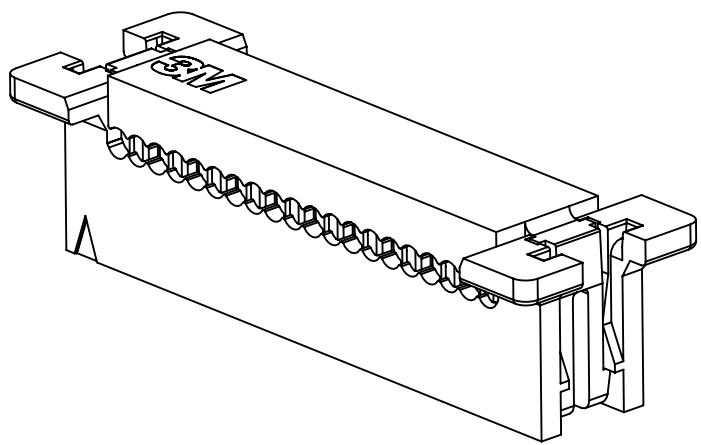
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



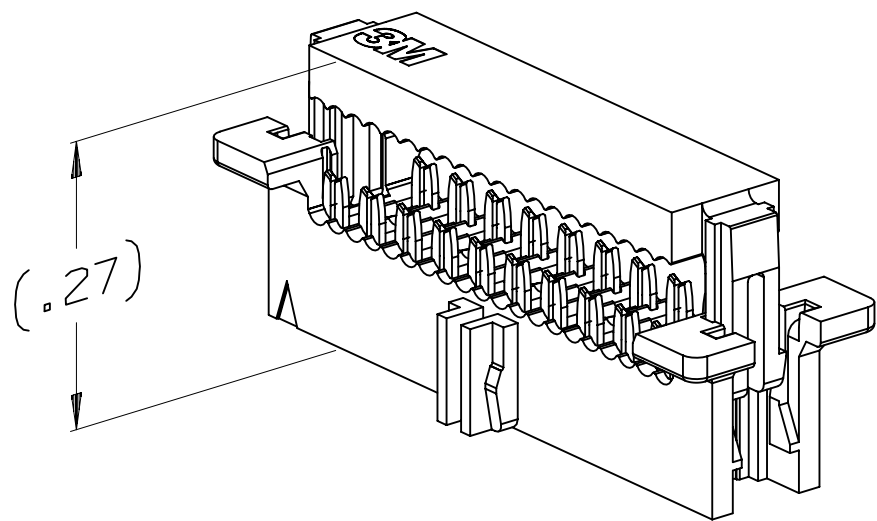
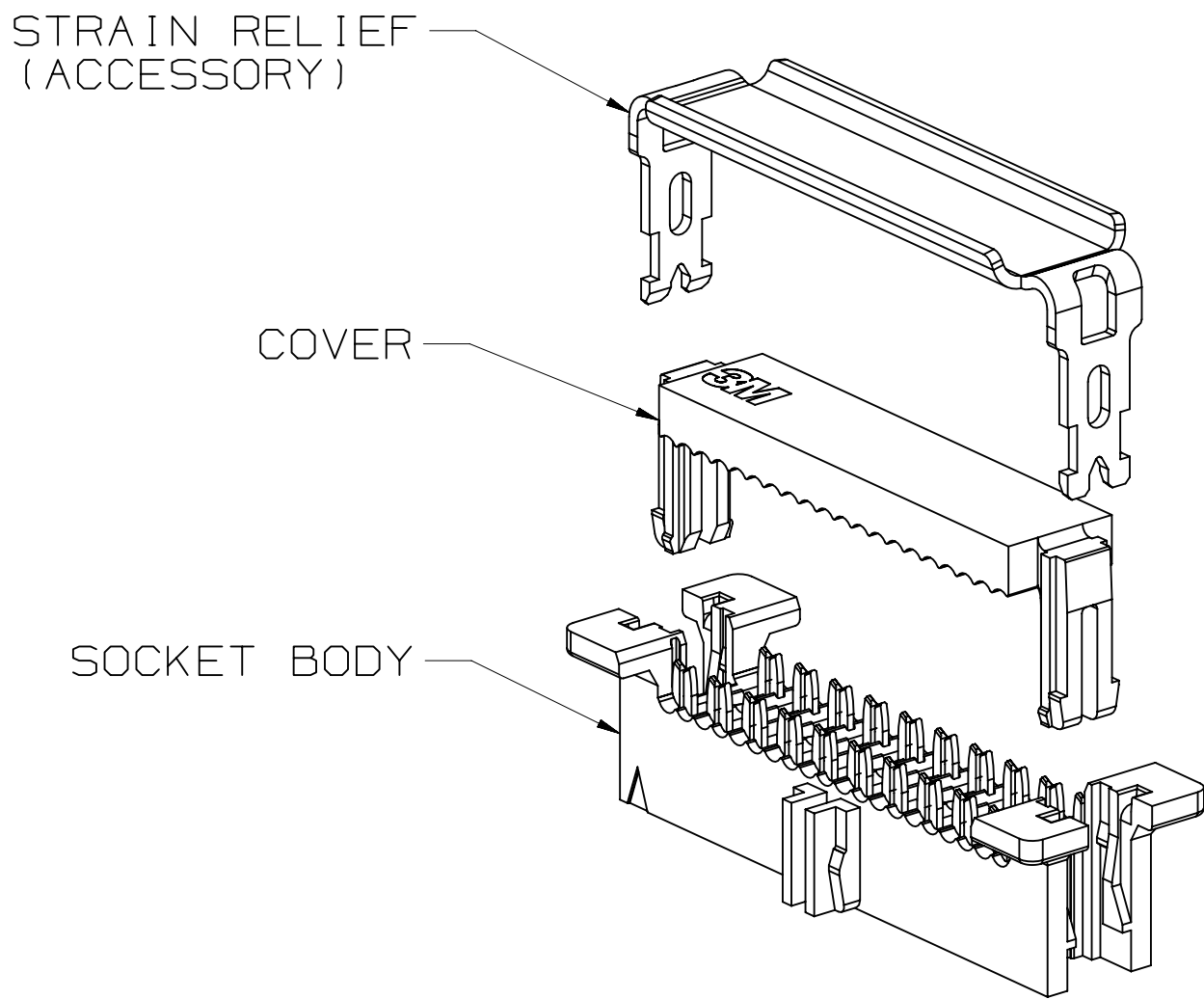
CENTER POLARIZATION
AND FRICTION LATCH



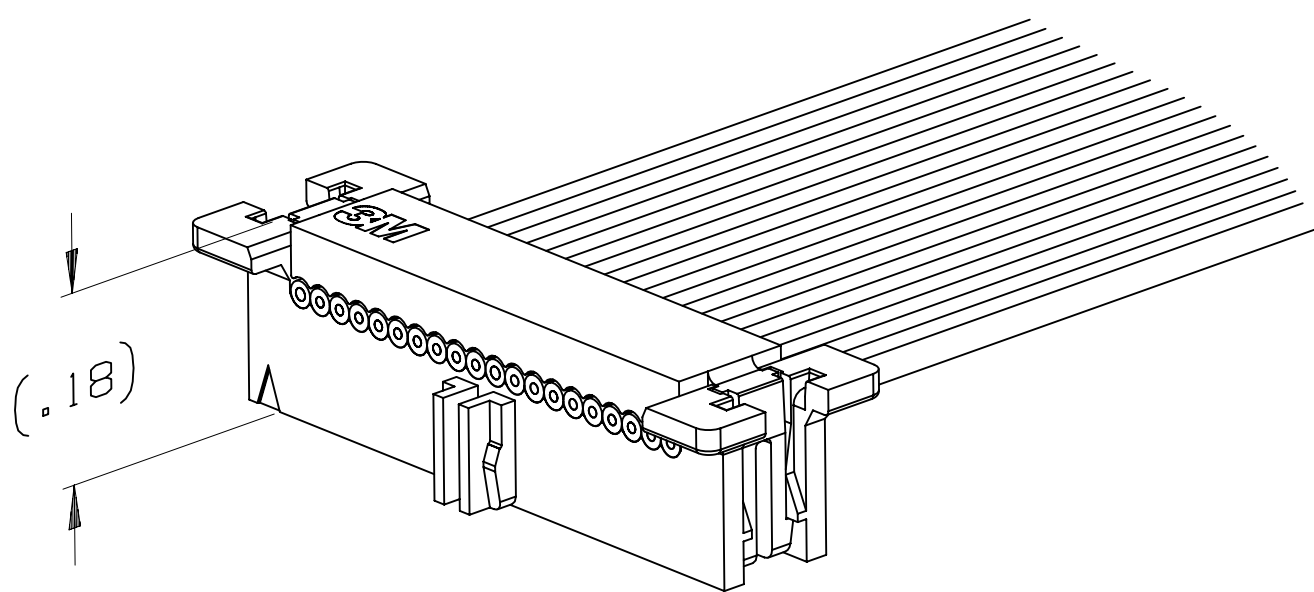
CENTER POLARIZATION
AND NO FRICTION LATCH



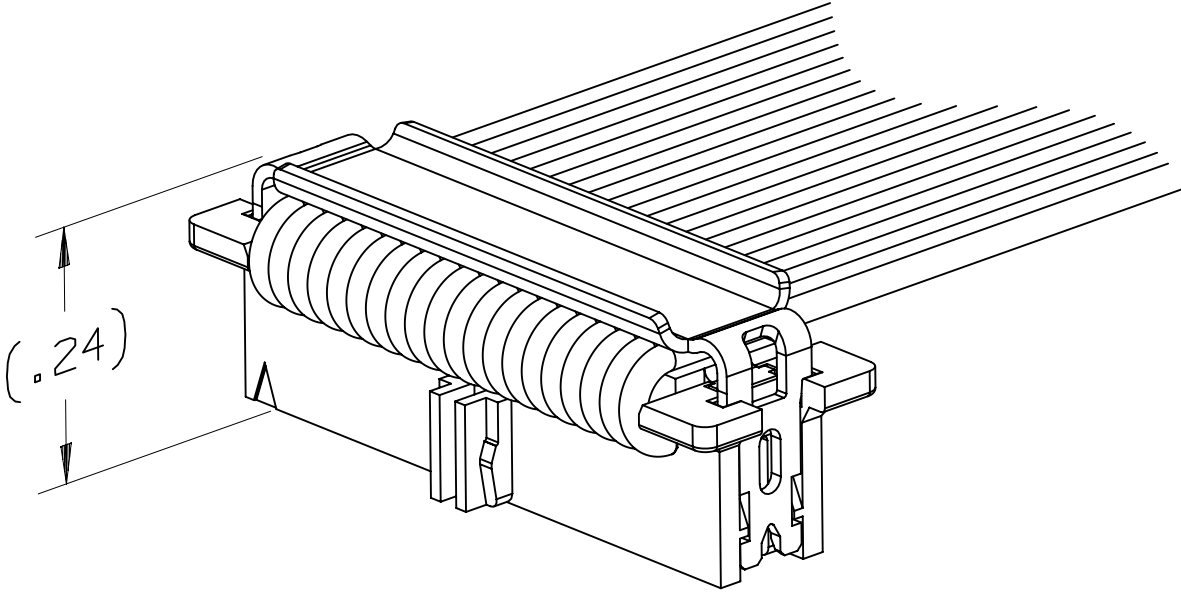
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

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 x 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

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

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

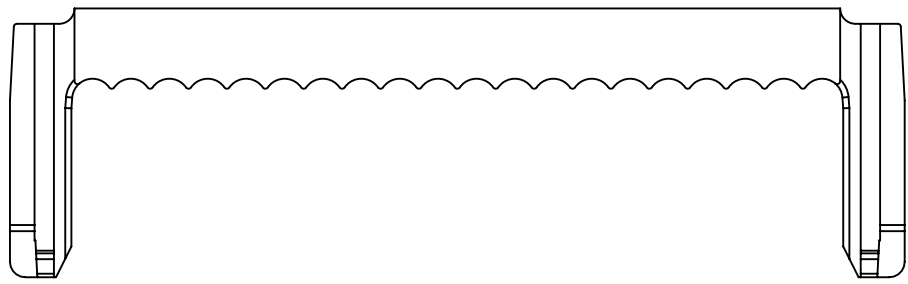
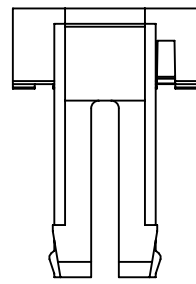
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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E68080

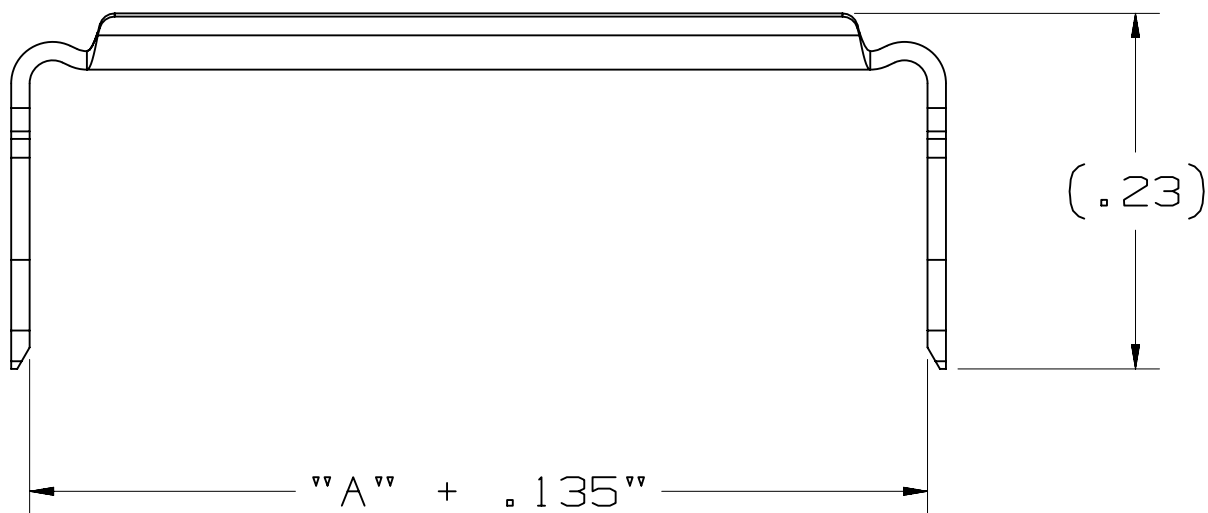
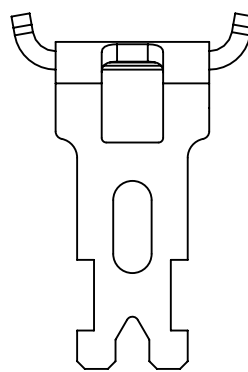
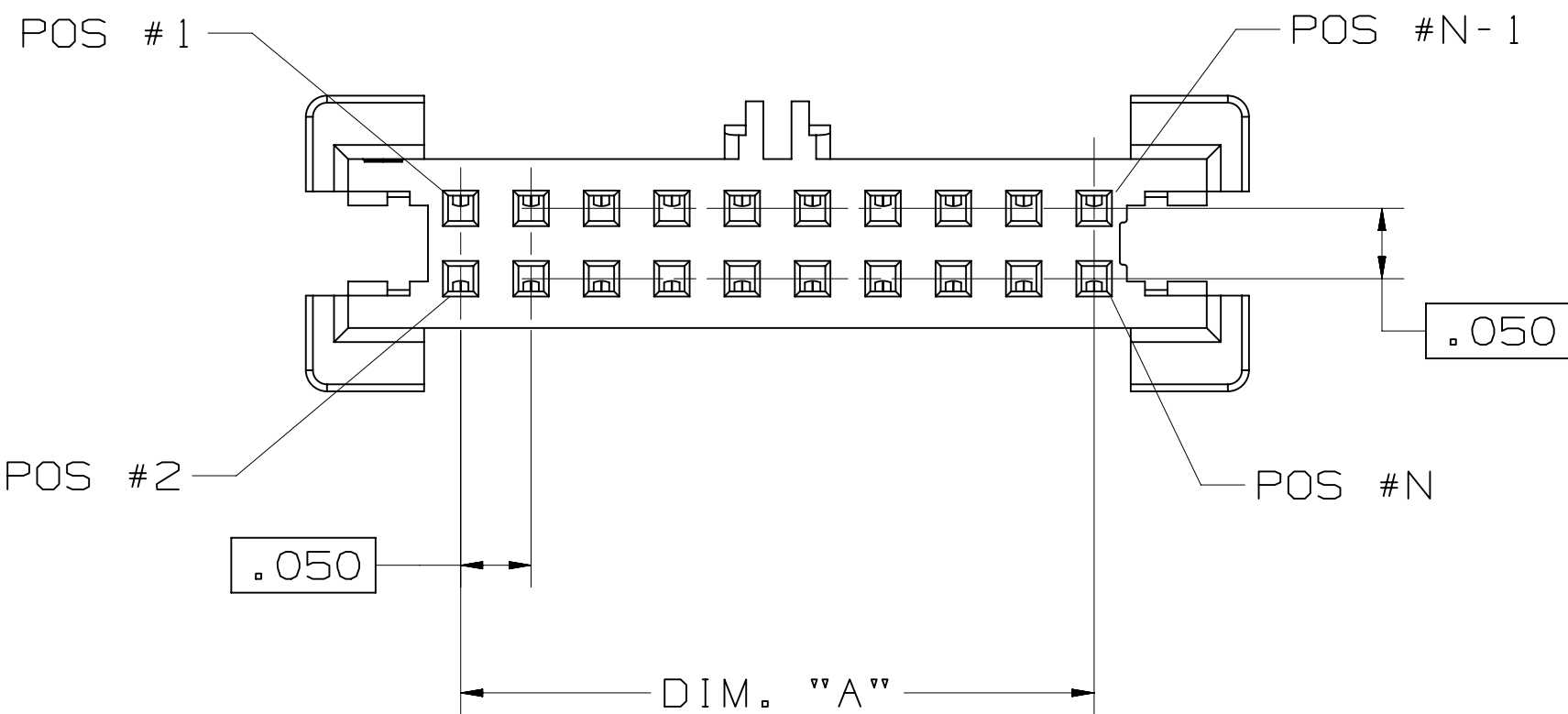
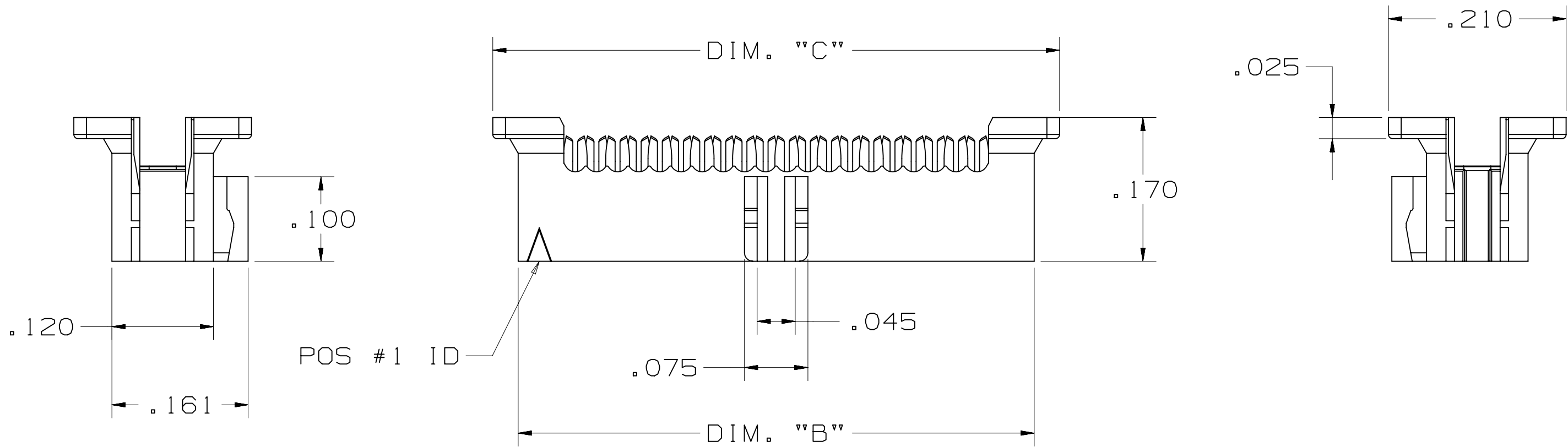
- NOTES
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS
STEEL
CONTACTS: BeCu ALLOY.
 - PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING
AREA
00 = FLASH GOLD ON WIPING AREA.
 - RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH PVC, 30 AWG,
SOLID OR 7 STRAND.
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		NEXT ASSEMBLY		PRODUCTION RELEASE					
DESIGN REFERENCE		REV		ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
ADDITIONAL CODES		DATE		ARM	FEB 11, 2011			MFG	DATE
		CHKD			DATE			APPRV SAN	DATE FEB 11, 2011
DIVISION Interconnect Solutions		DIVISION CODE ISD		© 3M COPYRIGHT 2014 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 1 6		TOLERANCES EXCEPT AS NOTED					
				INCHES ±.1 ±.02 ±.010 ±.005					
THIRD ANGLE PROJECTION				MILLIMETERS 0 ± 0 ± 0.00 ± 0.00 ± 0.00 ±					
INTERPRET PER ASME Y14.5 - 2009				CAGE NUMBER SIZE DRAWING NO. D78-5100-2436-3					
MAX SURFACE ROUGHNESS 12.5 SURFACES 6.3 MARKED ONLY				REV. E					
☒ UNLESS OTHERWISE SPECIFIED ☐ MARKED ONLY		ANGLES		DET. 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		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DIVISION		Interconnect Solutions		ISD		ARM	FEB 11,2011	MFG	DATE	DATE	DATE
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		CHKD	DATE	APRVL	DATE	DATE	DATE
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		INCHES .00 ± .01 .00 ± .02 .000 ± .010 .0000 ± .005		MILLIMETERS 0 ± .00 ± .00 ± .000 ± .005		3M		© 3M COPYRIGHT 2014	
MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY		CAGE NUMBER		SIZE		DRAWING NO.	
						D		78-5100-2436-3		REV.	
						MODEL		DET		YES	
										SHT 2 OF 2	

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