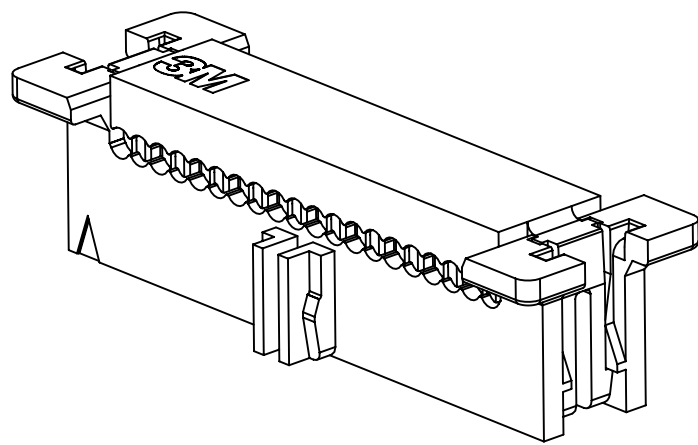
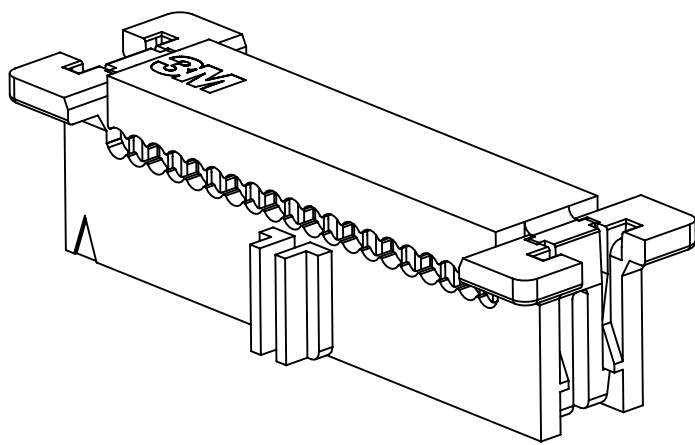


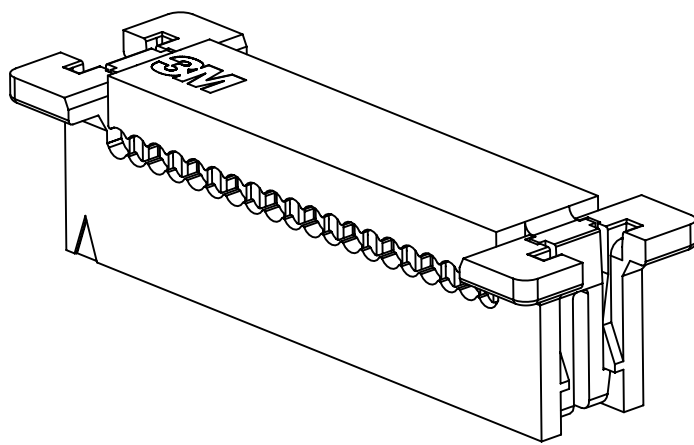
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
.05" X .05" (1.27mm X 1.27mm) PITCH, 451 SERIES



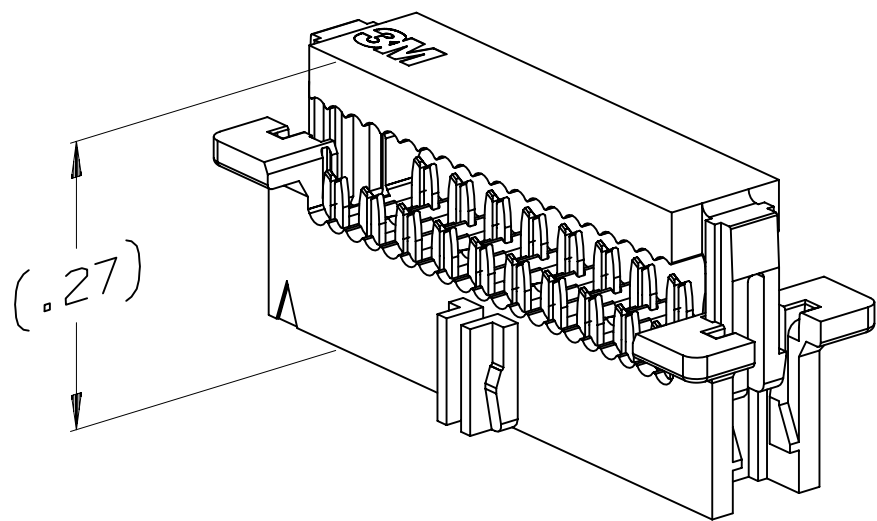
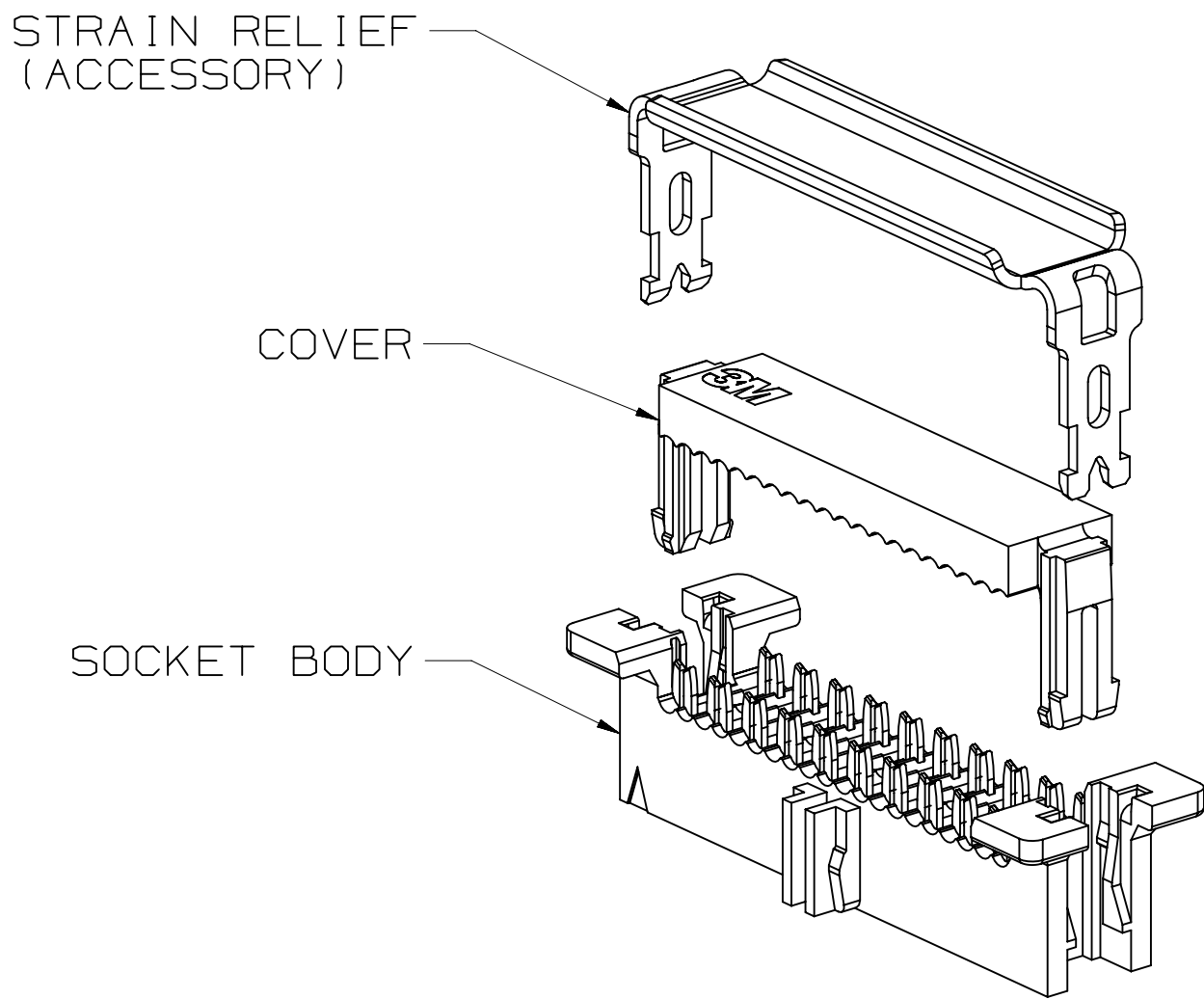
CENTER POLARIZATION
AND FRICTION LATCH



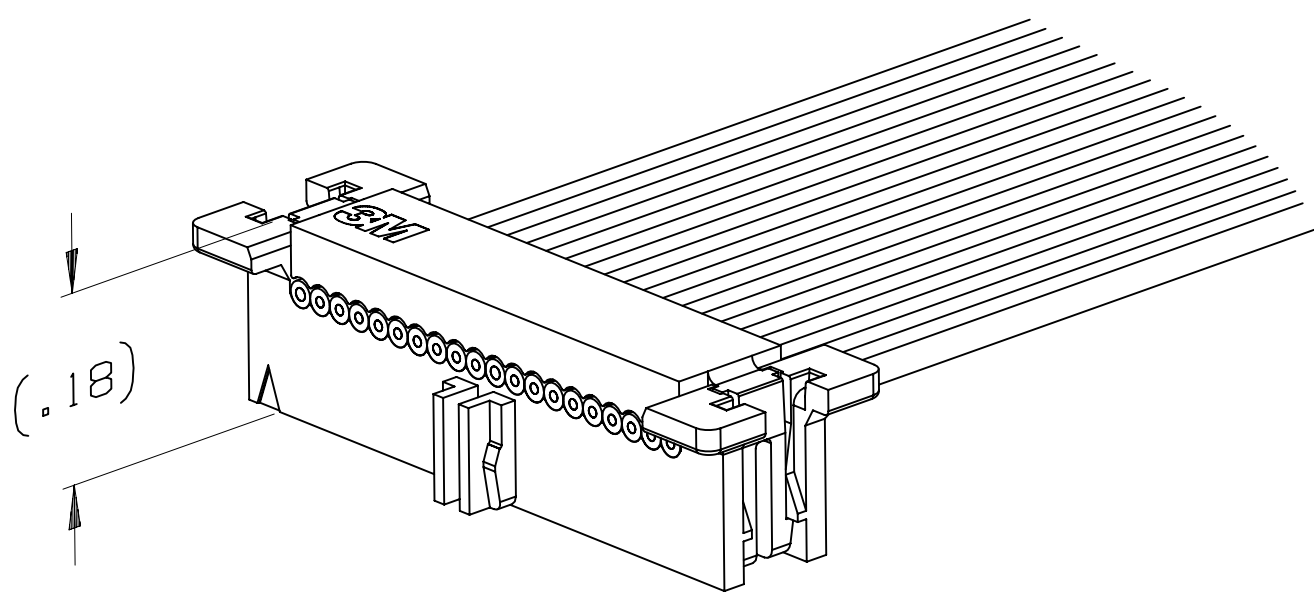
CENTER POLARIZATION
AND NO FRICTION LATCH



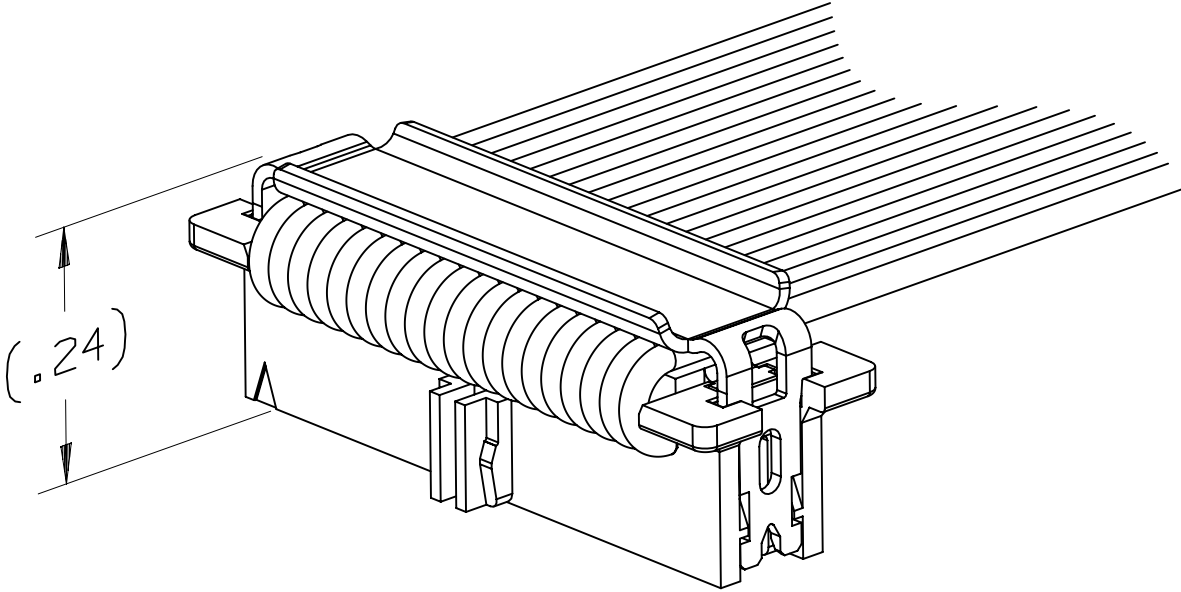
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

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

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

- 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
XREF CODES		DIVISION CODE		ARM	FEB 11, 2011	MFG	DATE		
DIVISION		Interconnect Solutions		ISD	DATE	APPROV	DATE		
DO NOT SCALE DRAWING		SCALE 6-1		TOLERANCES EXCEPT AS NOTED		INCHES .00 ±.02 .000 ±.010 .0000 ±.005		MILLIMETERS 0 ±.1 .00 ±.003 .000 ±.005	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		SURFACES		MARKED ONLY	
TITLE		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE NUMBER		DRAWING NO.		REV.	
MODEL		D 78-5100-2436-3		C		SHT 1 OF 2			

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

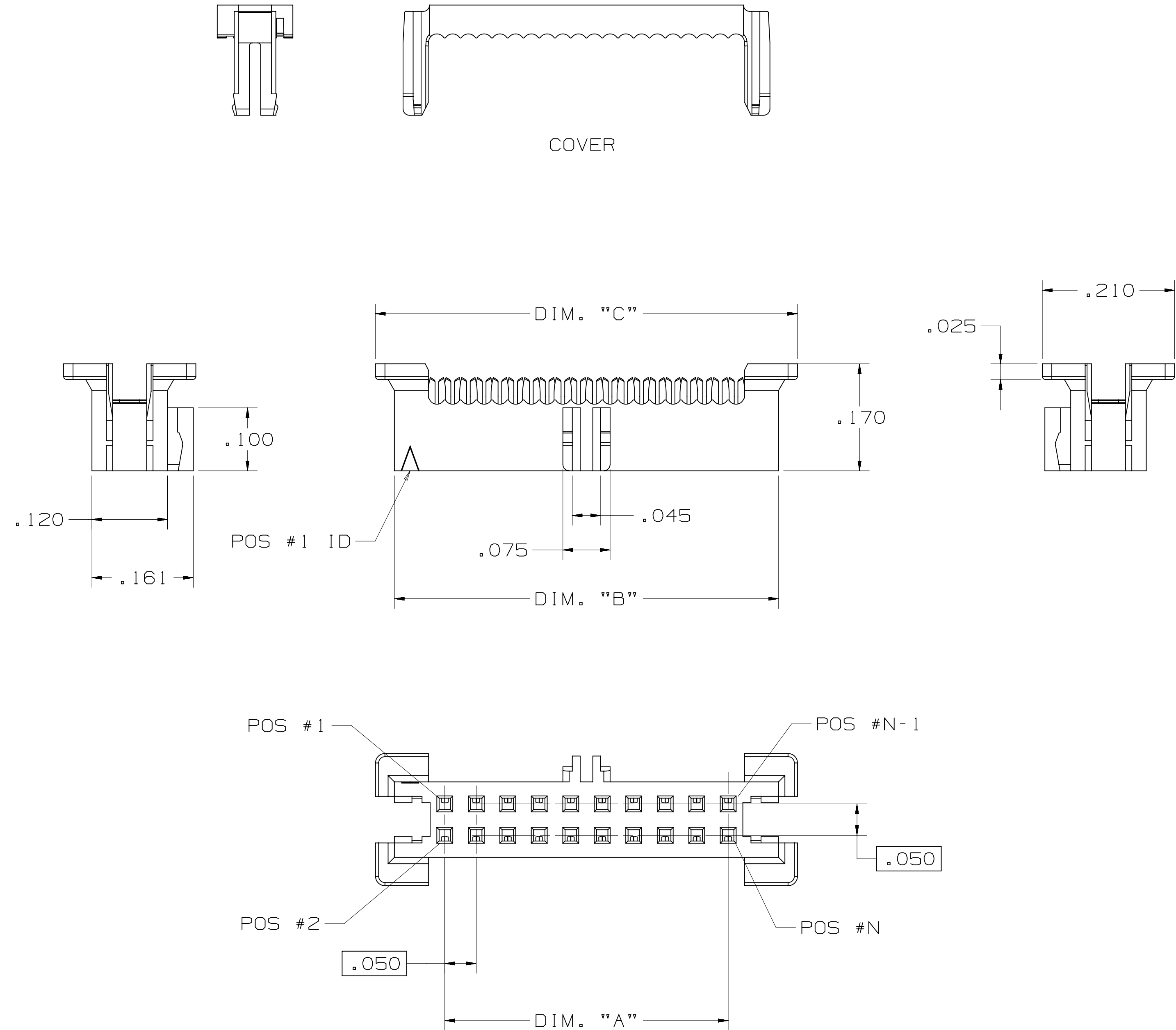
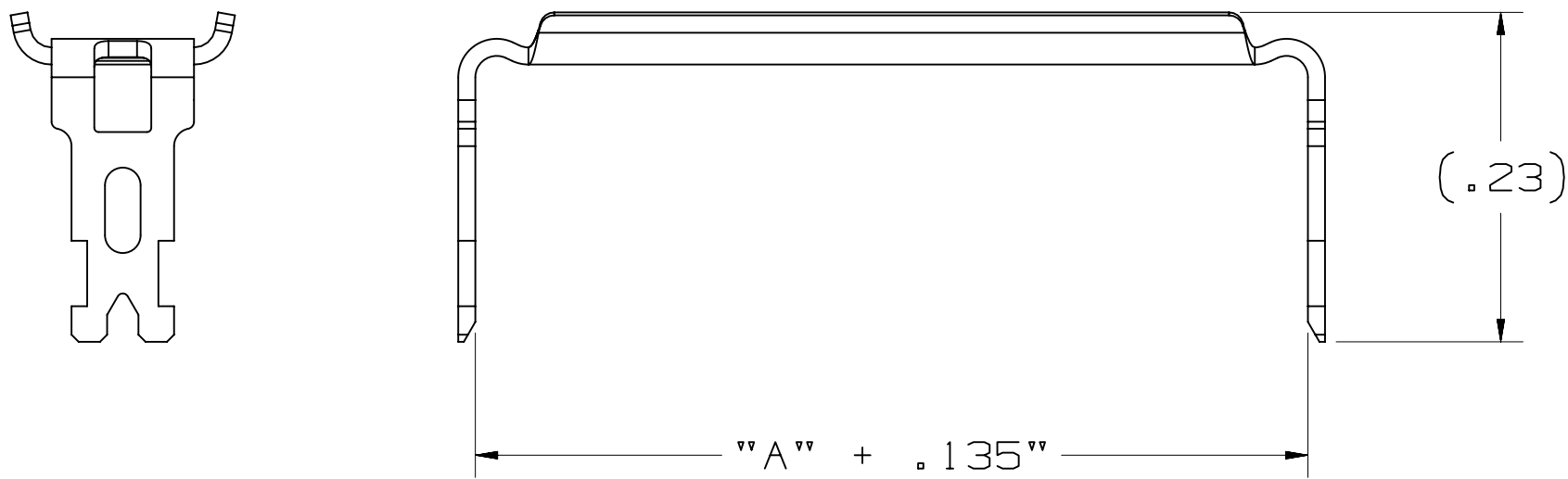


TABLE 1			
No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.210	.270
6	.100	.260	.320
8	.150	.310	.370
10	.200	.360	.420
12	.250	.410	.470
14	.300	.460	.520
16	.350	.510	.570
20	.450	.610	.670
30	.700	.860	.920



ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

		C 50290		OCT 08,2013		JNC		SN	
		B 48635		REVISE NOTES 1, 3, 8 & OPERATING TEMP.		JNC		SN	
		A 46797		MAR 25,2013		JNC		SAN	
				PRODUCTION RELEASE					
DESIGN REFERENCE				NEXT ASSEMBLY		REV		ECO	
ACCESS CODES				DRFT ARM		DATE FEB 11,2011		MFG	
				CHKD		DATE		DATE	
						APPRO SAN		FEB 11,2011	
DIVISION				DIVISION CODE		© 3M COPYRIGHT 2013			
Interconnect Solutions				ISD		3M Center			
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						St. Paul, MN 55144			
				INCHES		TITLE			
				.0 ± .1		RIBBON CABLE SOCKET,			
				.00 ± .02		.05 X .05 PITCH, 451			
THIRD ANGLE PROJECTION				.000 ± .005		SERIES			
INTERPRET PER ASME Y14.5 - 1994				MILLIMETERS		CAGE NUMBER			
				.0 ± .000		SIZE			
MAX SURFACE ROUGHNESS				.000 ±		DRAWING NO.			
SURFACES				.000 ±		D 78-5100-2436-3			
✓ ☐ MARKED ONLY				ANGLE		REV.			
						C			
				MODEL		DET.			
						☐ YES ☒ NO			
						SHT 2 OF			