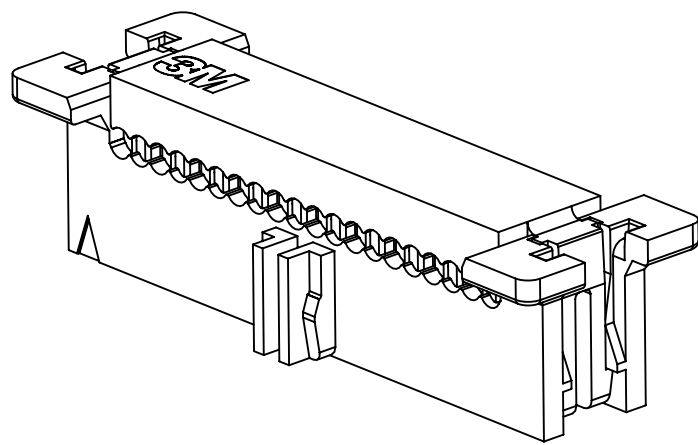
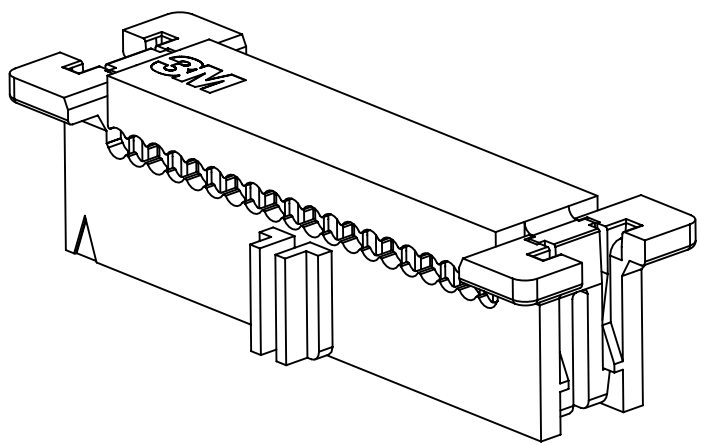


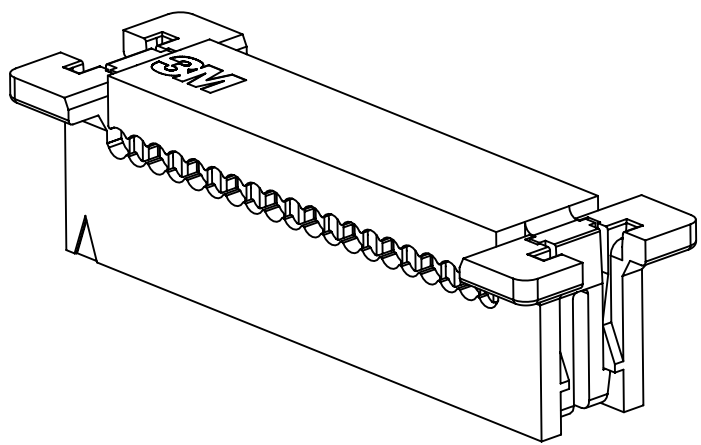
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



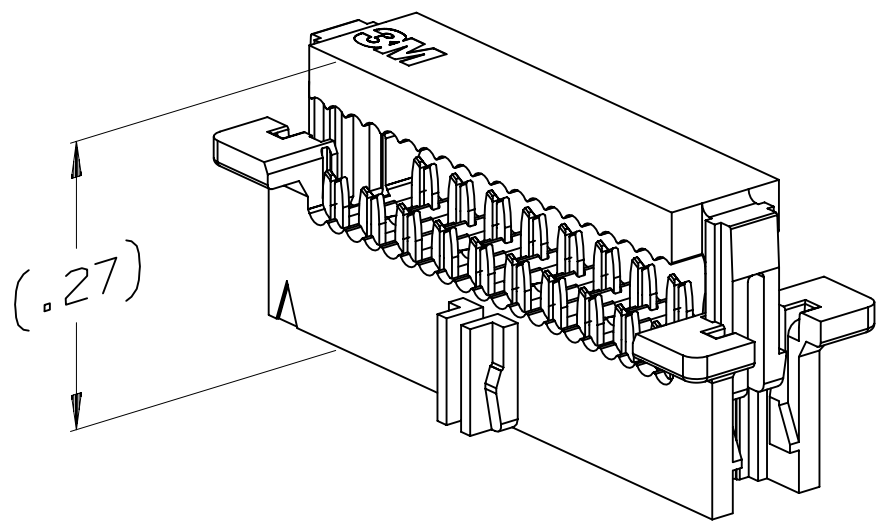
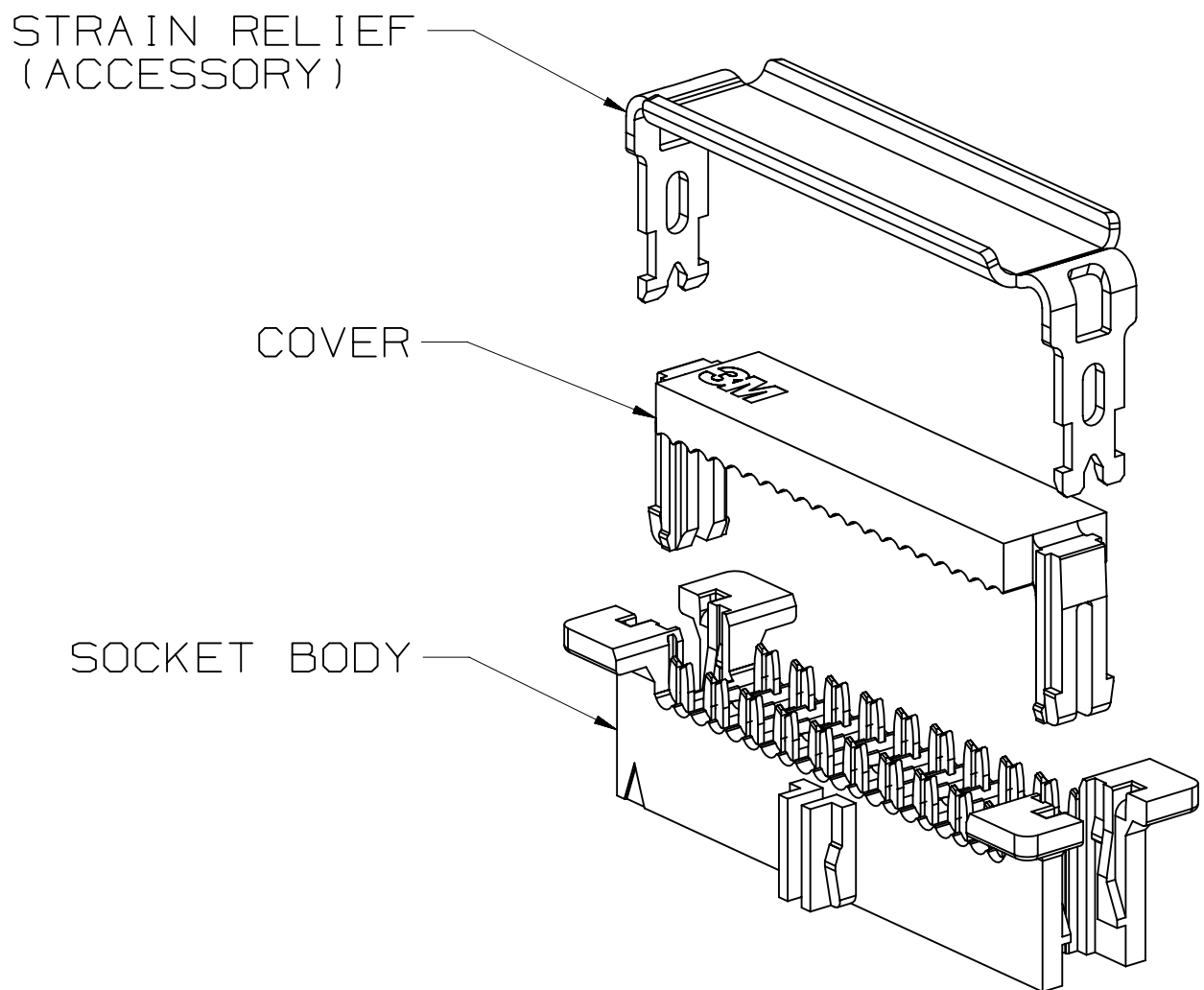
CENTER POLARIZATION
AND FRICTION LATCH



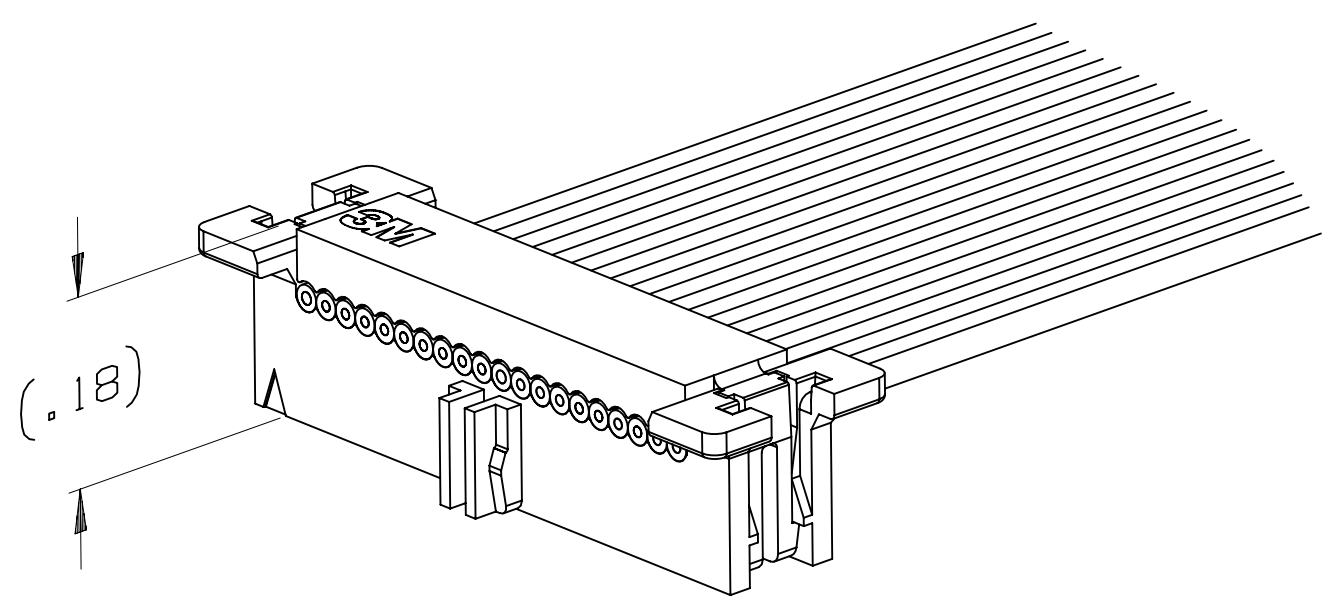
CENTER POLARIZATION
AND NO FRICTION LATCH



NO CENTER POLARIZATION
AND NO FRICTION LATCH

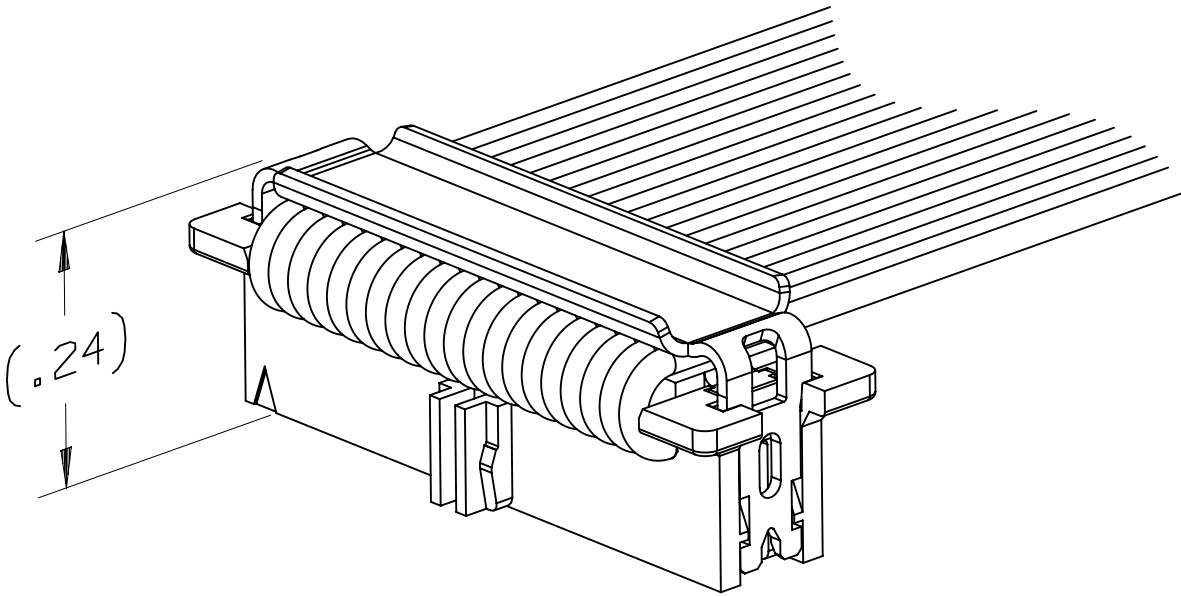


PRE-POSITIONED COVER



NO STRAIN RELIEF

TERMINATED
CONNECTOR



WITH OPTIONAL
STRAIN RELIEF

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 MATERIALS 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

UL
UL FILE NO: E68080

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 × 10⁹ Ohms AT 500 VDC
WITHSTANDING
VOLTAGE: 1250VACrms AT SEA LEVEL
OPERATING
TEMPERATURE: -65°C to +125°C
UL & CUL
OPERATING
TEMPERATURE: +125°C

NOTES

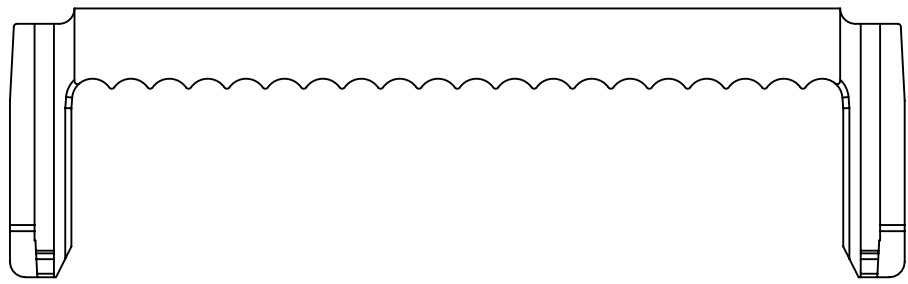
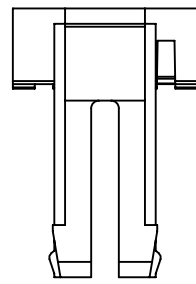
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS
STEEL
CONTACTS: BeCu ALLOY.
- PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING
AREA
00 = FLASH GOLD ON WIPING AREA.
- RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH PVC, 30 AWG,
SOLID OR 7 STRAND.
RECOMMENDED:
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

F	56988	SEP 24,2014	JNC	SN
E	54514	MAY 07,2014	SJS	SAN
D	51884	JAN 08,2014	SJS	SAN
C	50290	OCT 08,2013	JNC	SN
B	48635	JUL 12,2013	JNC	SN
A	46797	MAR 25,2013	JNC	SAN
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM	FEB 11,2011	MFG	DATE	
CHKD	DATE	APRVL	DATE	
		SAN	FEB 11,2011	

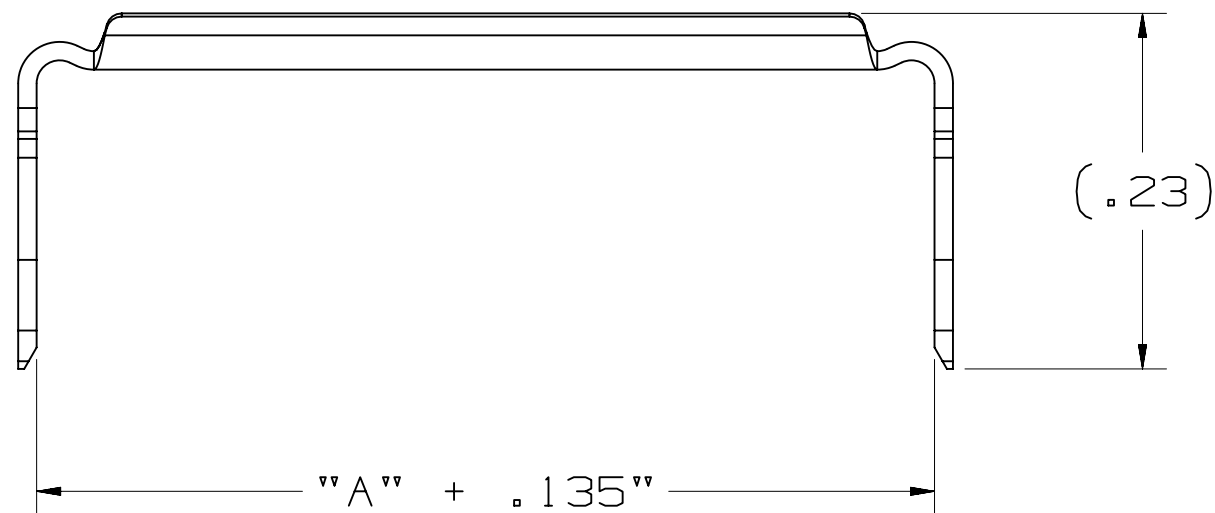
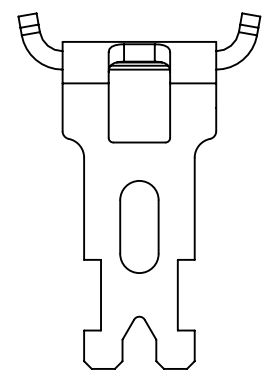
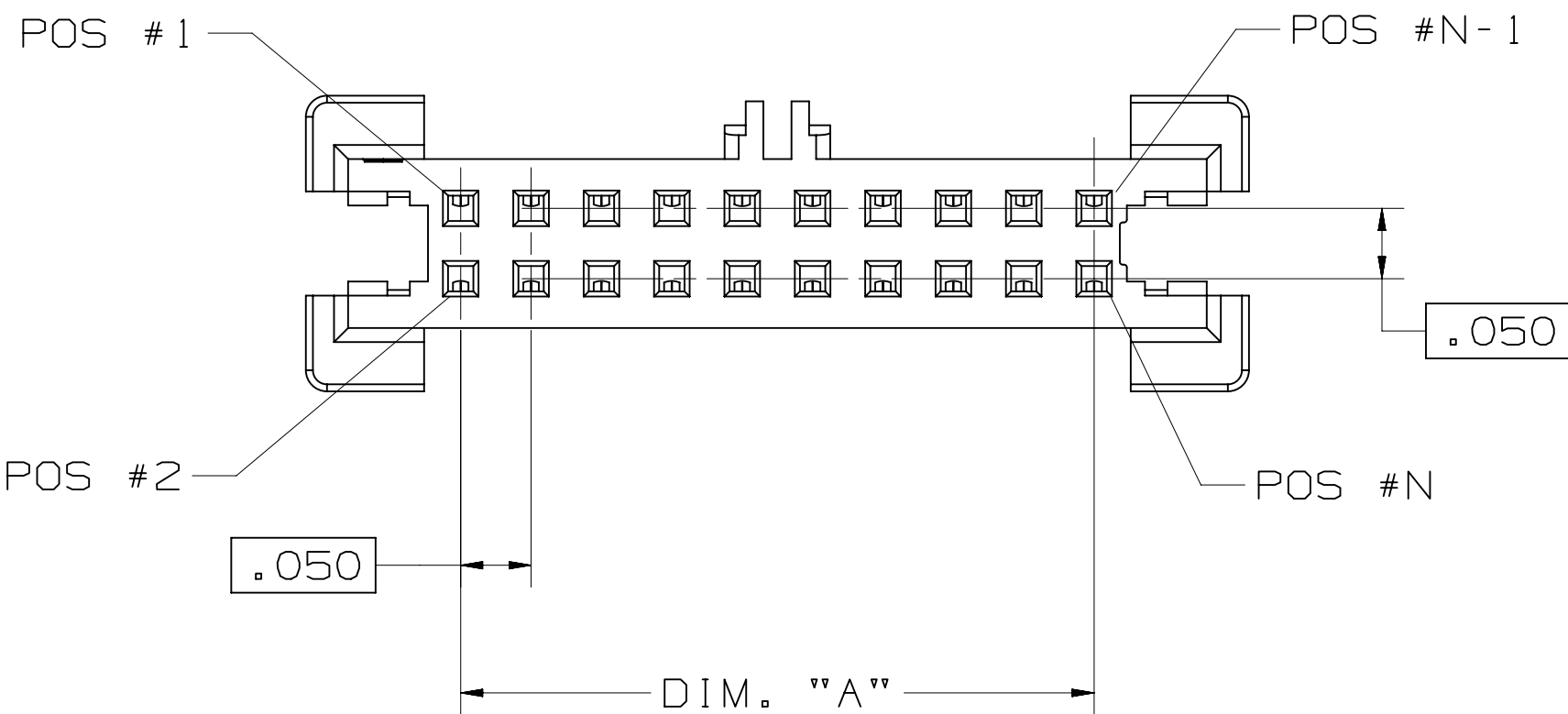
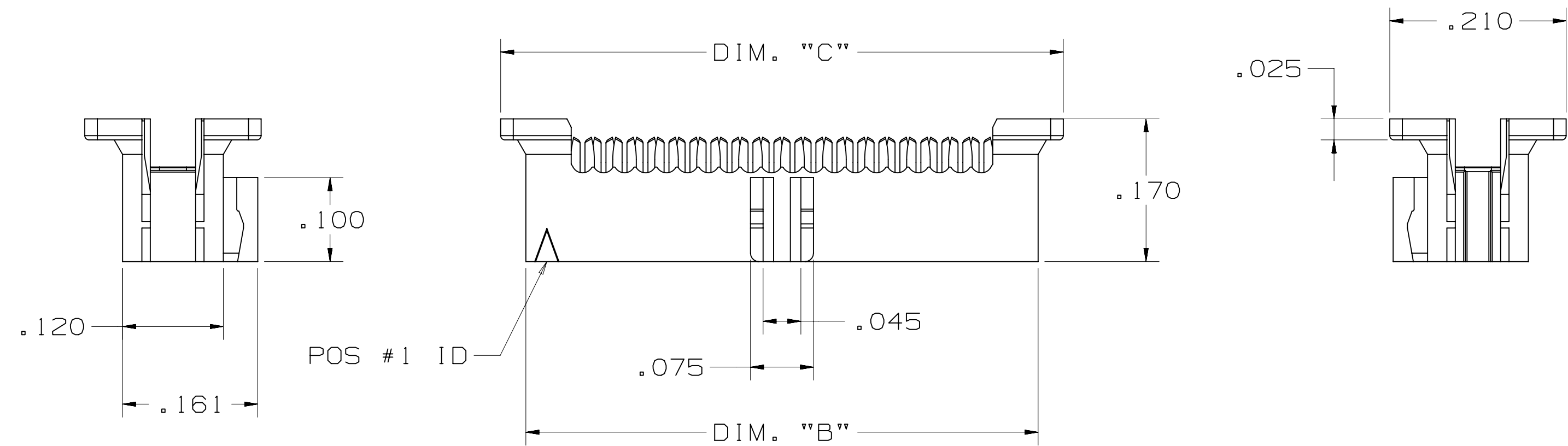
78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY	
DESIGN REFERENCE	SCALE	DIVISION CODE	ISD
DO NOT SCALE DRAWING	6-1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	INCHES 0.0 ±.01 0.00 ±.002 0.000 ±.010 0.0000 ±.005	MILLIMETERS 0 ±.1 0.0 ±.002 0.00 ±.005 0.000 ±.005
MAX SURFACE ROUGHNESS 12.5 SURFACES ✓ MARKED ONLY		ANGLES	

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RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE SIZE DRAWING NO. REV. NUMBER D 78-5100-2436-3 F	
MODEL		DET LISTS DYES 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		SCALE		TOLERANCES EXCEPT AS NOTED		ARM	FEB 11,2011	MFG	DATE		
Interconnect Solutions		4		INCHES		CHKD		APRVL	DATE		
DO NOT SCALE DRAWING		1		THIRD ANGLE PROJECTION				SAN	FEB 11,2011		
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS		MILLIMETERS		3M Center St. Paul, MN 55144		© 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.	
THIRD ANGLE PROJECTION		.00 ± .01 .00 ± .02 .000 ± .010 .0000 ± .005		0 ± .0 ± .00 ± 200 ±		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE NUMBER		DRAWING NO.	
MAX SURFACE ROUGHNESS		0 ± .0 ± .00 ± 200 ±		0 ± .0 ± .00 ± 200 ±		D 78-5100-2436-3		REV.		F	
SURFACES		0 ± .0 ± .00 ± 200 ±		0 ± .0 ± .00 ± 200 ±		MODEL		DET		SHT 2 OF 2	
MARKED ONLY		0 ± .0 ± .00 ± 200 ±		0 ± .0 ± .00 ± 200 ±		LISTS		YES		NO	