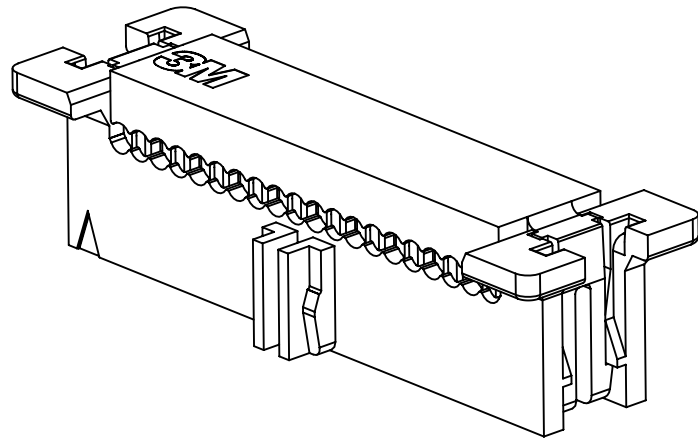
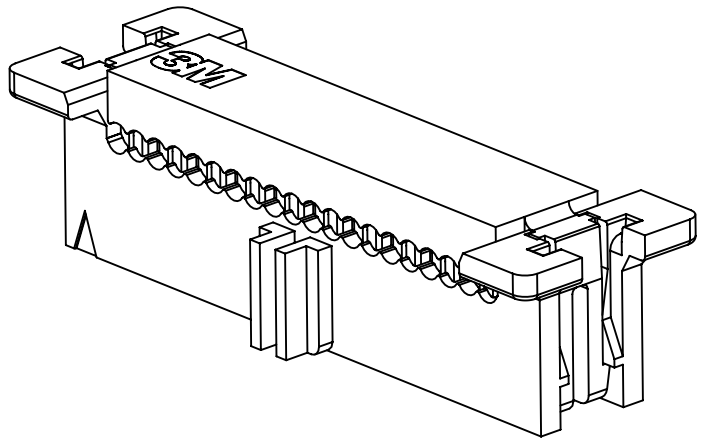


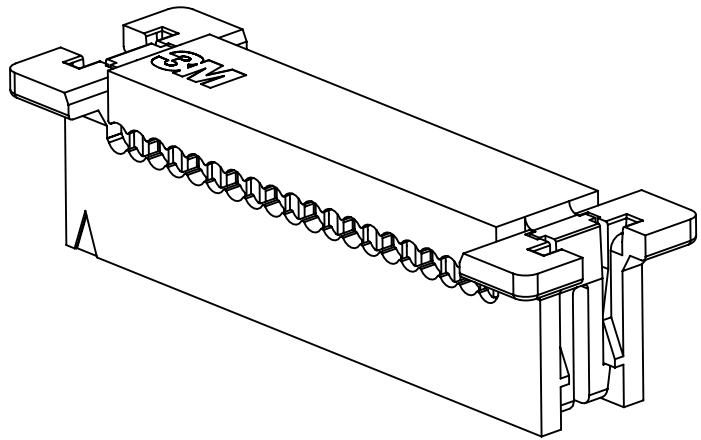
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
1.27mm (0.050") PITCH, 451 SERIES



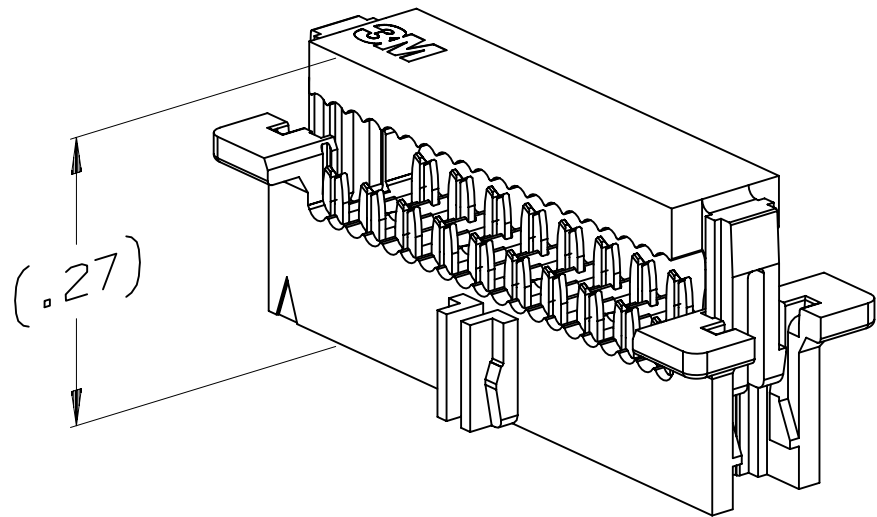
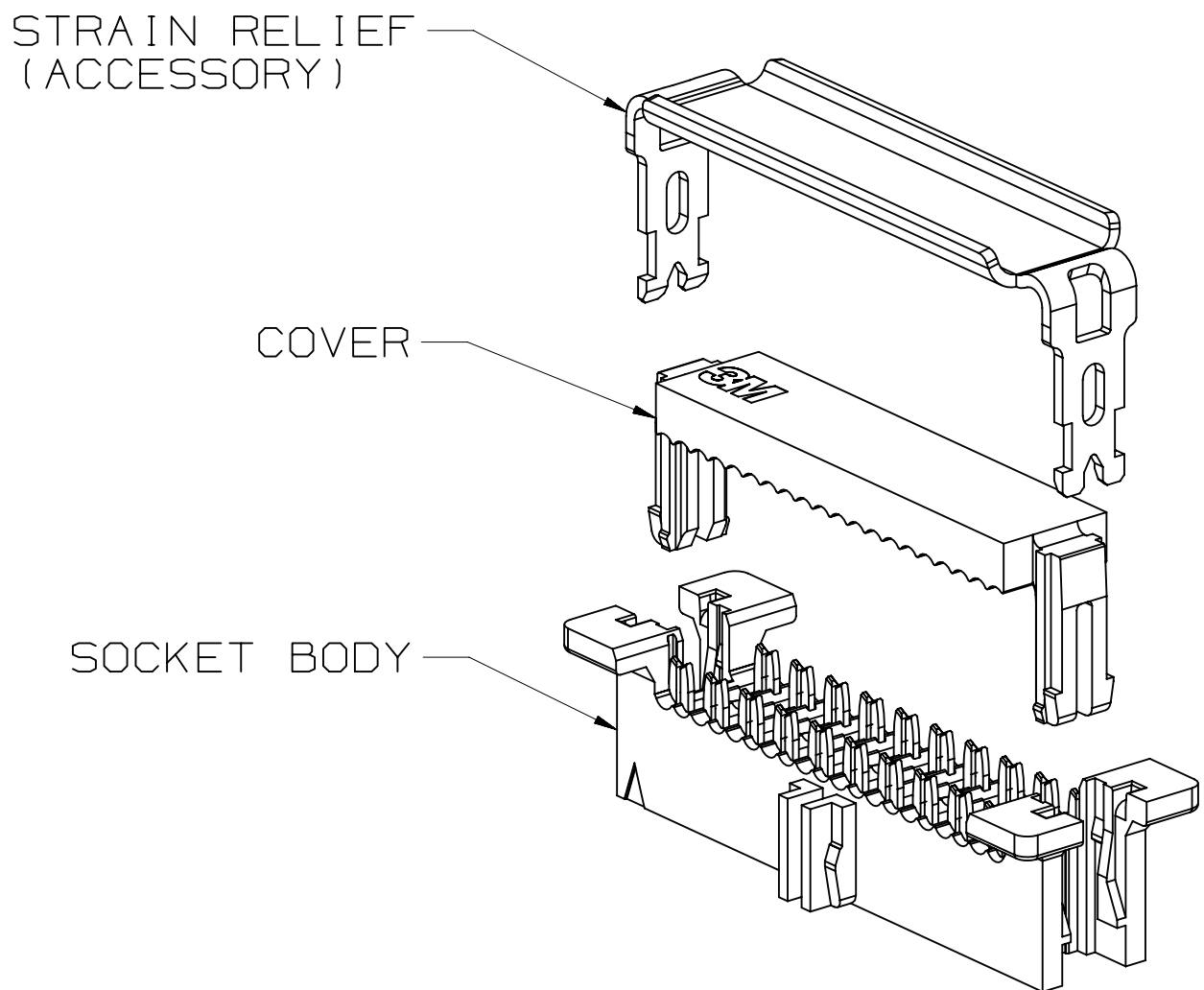
CENTER POLARIZATION
AND FRICTION LATCH



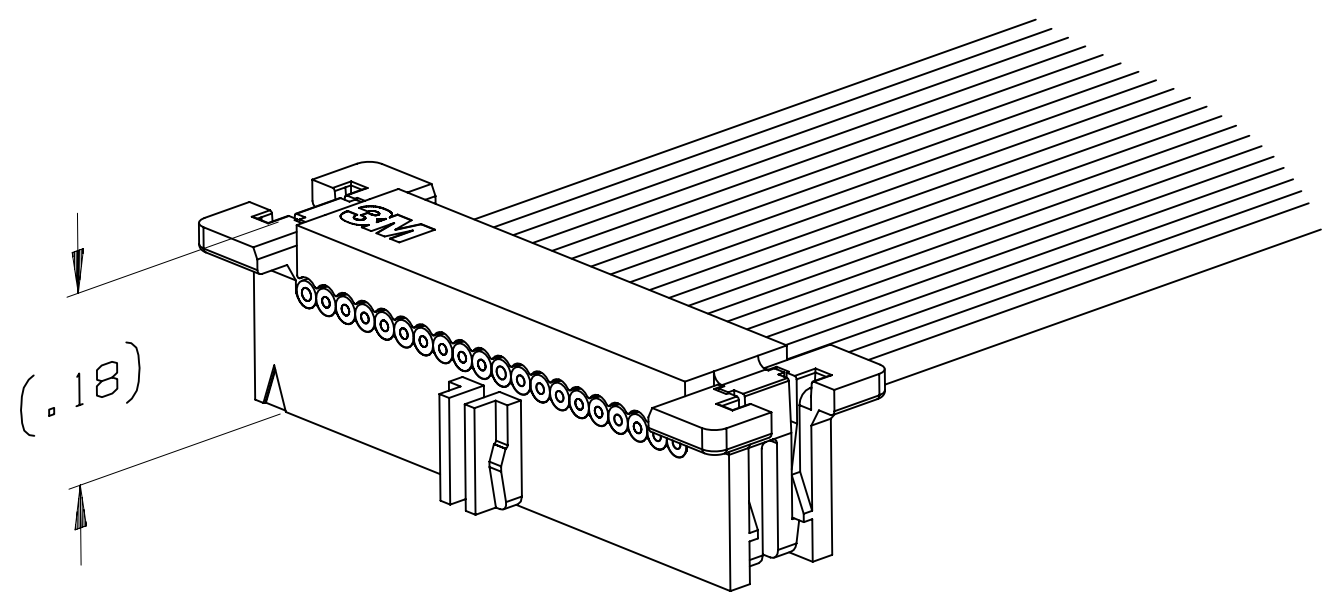
CENTER POLARIZATION
AND NO FRICTION LATCH



NO CENTER POLARIZATION
AND NO FRICTION LATCH

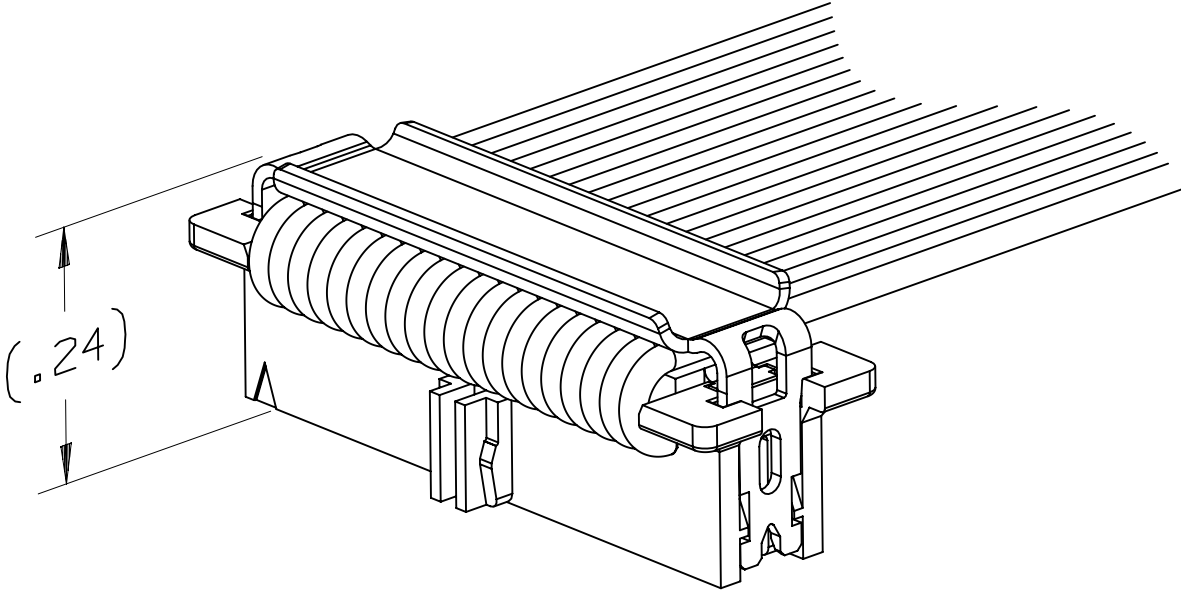


PRE-POSITIONED COVER



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

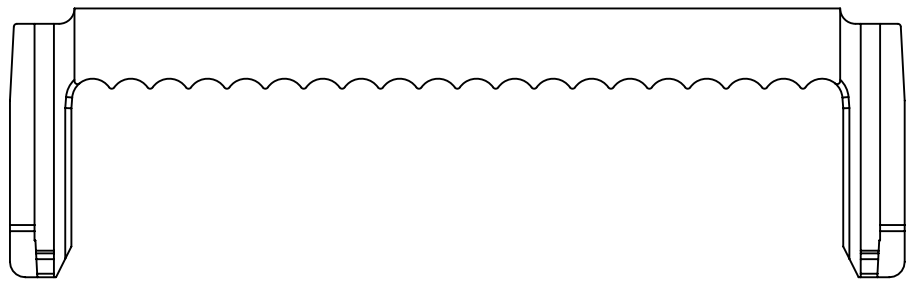
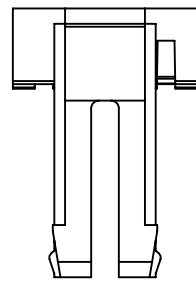
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: STAINLESS
STEEL
CONTACTS: BeCu ALLOY.
- PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING
AREA
00 = FLASH GOLD ON WIPING AREA.
- RIBBON CABLE COMPATIBILITY:
GENERAL:
0.025" PITCH PVC, 30 AWG,
SOLID OR 7 STRAND.
RECOMMENDED: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

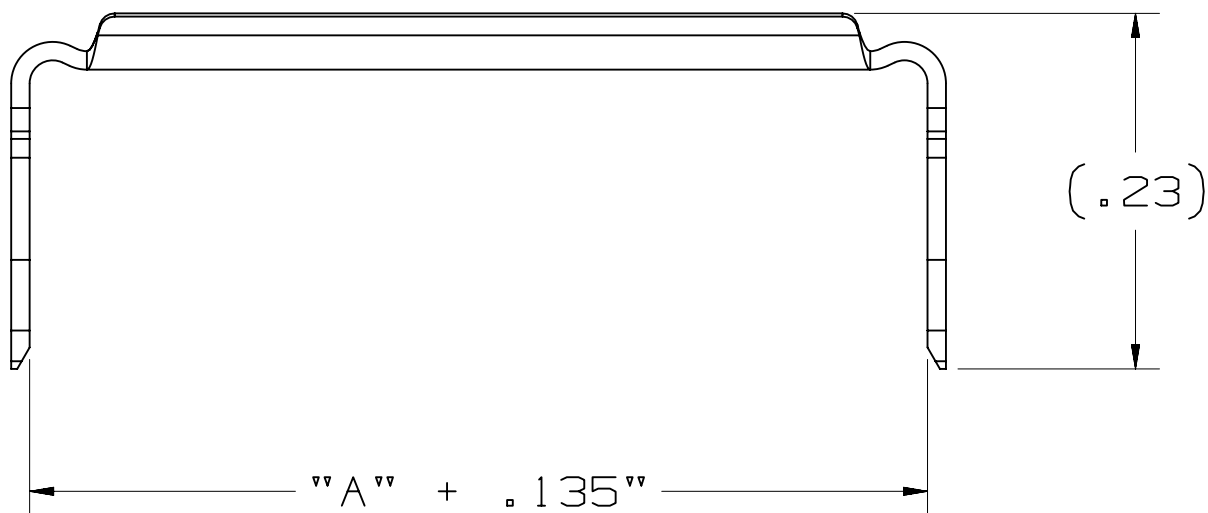
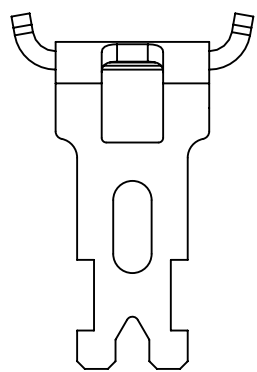
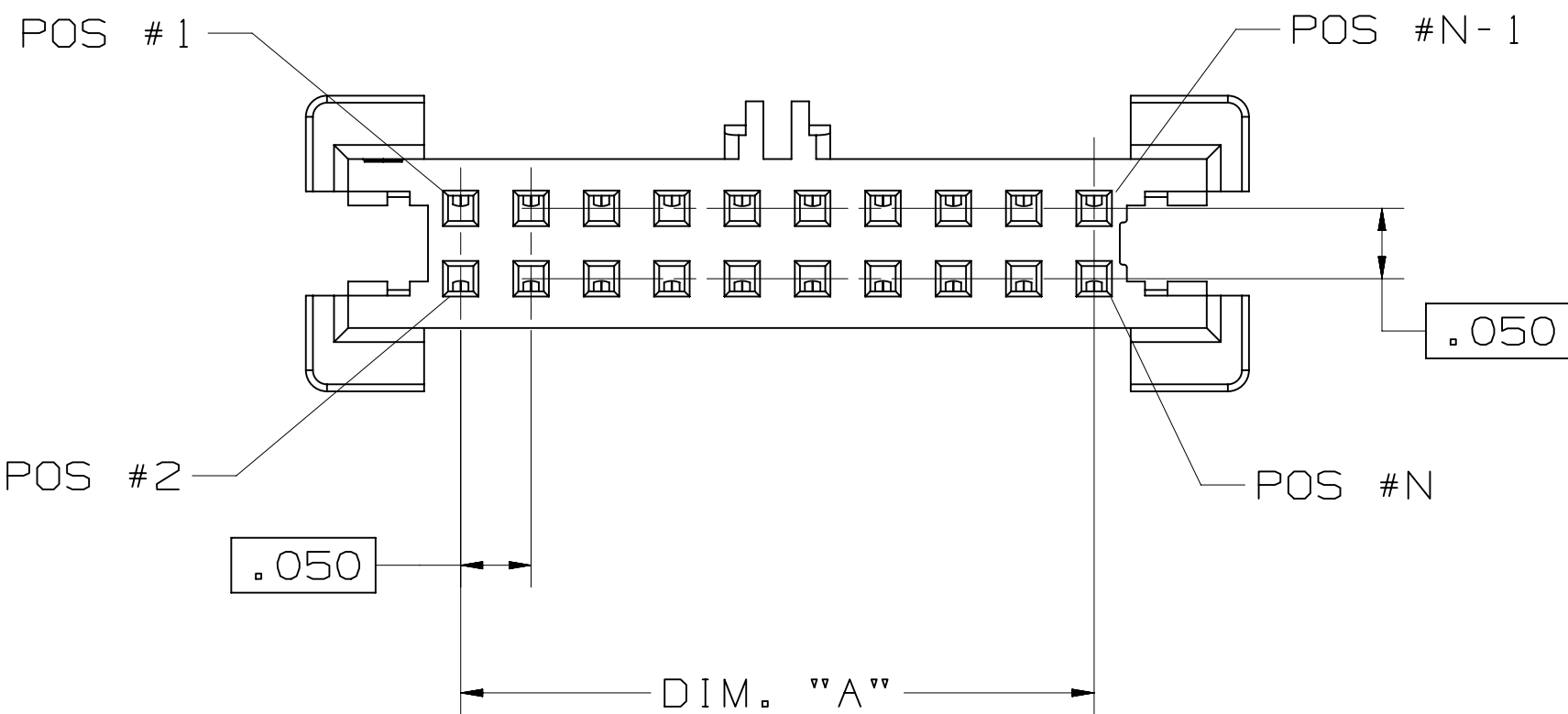
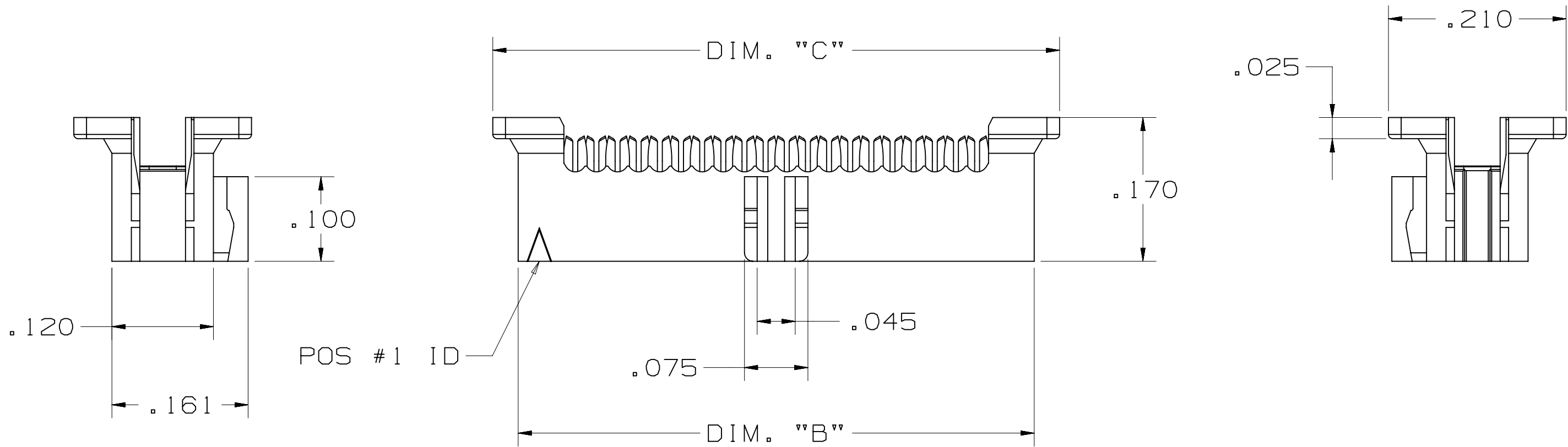
78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY	
DESIGN REFERENCE	SCALE	DIVISION CODE	ISD
DO NOT SCALE DRAWING	6 1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	INCHES 0.0 ±.01 0.000 ±.010 0.0000 ±.005	MILLIMETERS 0 ± 0 ± 0.00 ± 0.00 ±
MAX SURFACE ROUGHNESS 12.5 SURFACES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

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TITLE		RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES	
CAGE NUMBER	SIZE	DRAWING NO.	REV.
D		78-5100-2436-3	F
MODEL	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

DO NOT SCALE DRAWING

SCALE 4 1

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MAX SURFACE ROUGHNESS

INCHES .00 ± .01 .01 ± .02 .000 ± .010 .0000 ± .005

MILLIMETERS 0 ± .00 ± .00 ± .000 ± .005

ANGLES

3M

3M Center St. Paul, MN 55144

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TITLE

RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES

CAGE NUMBER

SIZE

DRAWING NO.

REV.

78-5100-2436-3

F

MODEL

DET

LISTS

YES

NO

SHT 2 OF 2

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ARM		FEB 11, 2011		
CHKD		DATE	APRVL	DATE
			SAN	FEB 11, 2011

F	56988	SEP 24, 2014	JNC	SN
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