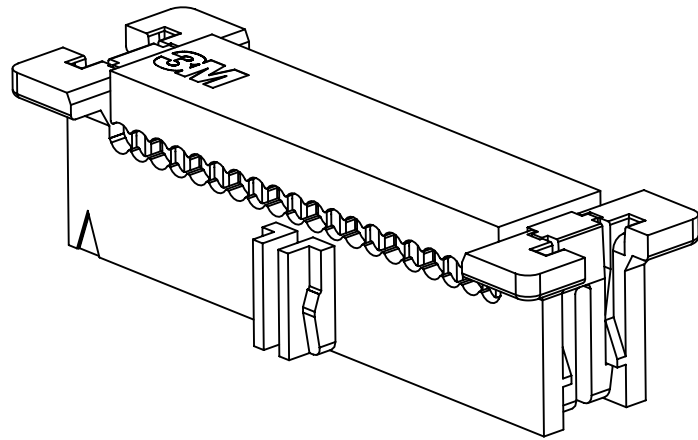
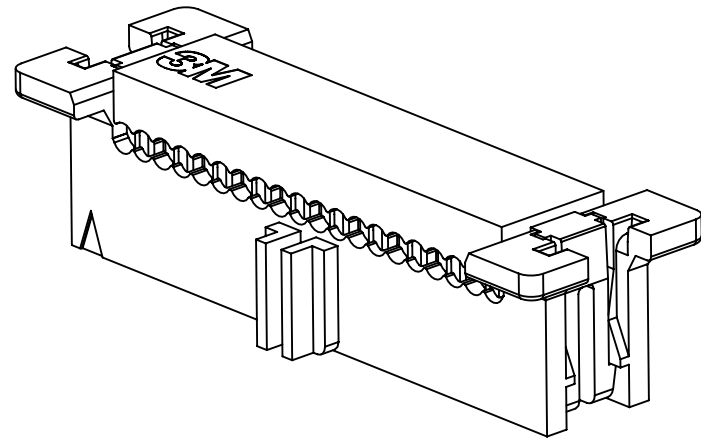


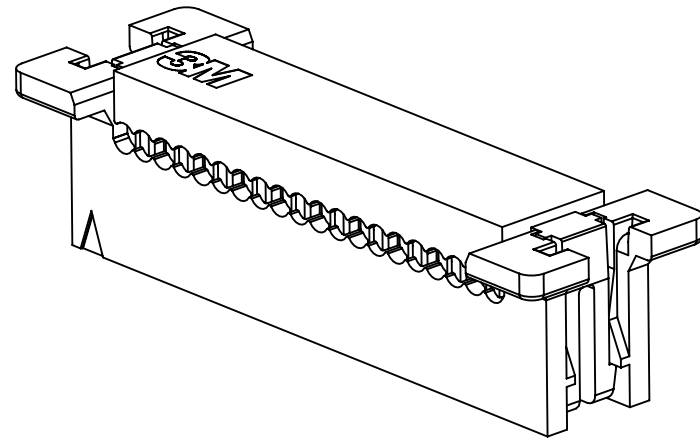
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



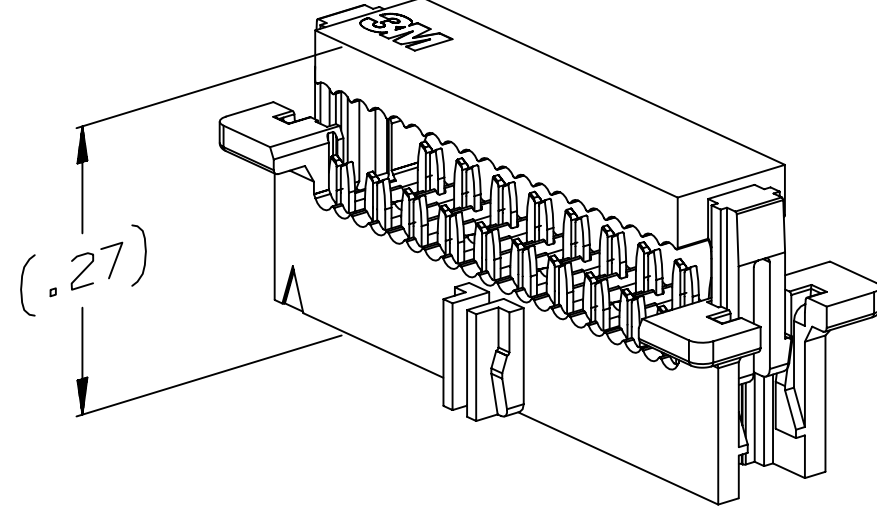
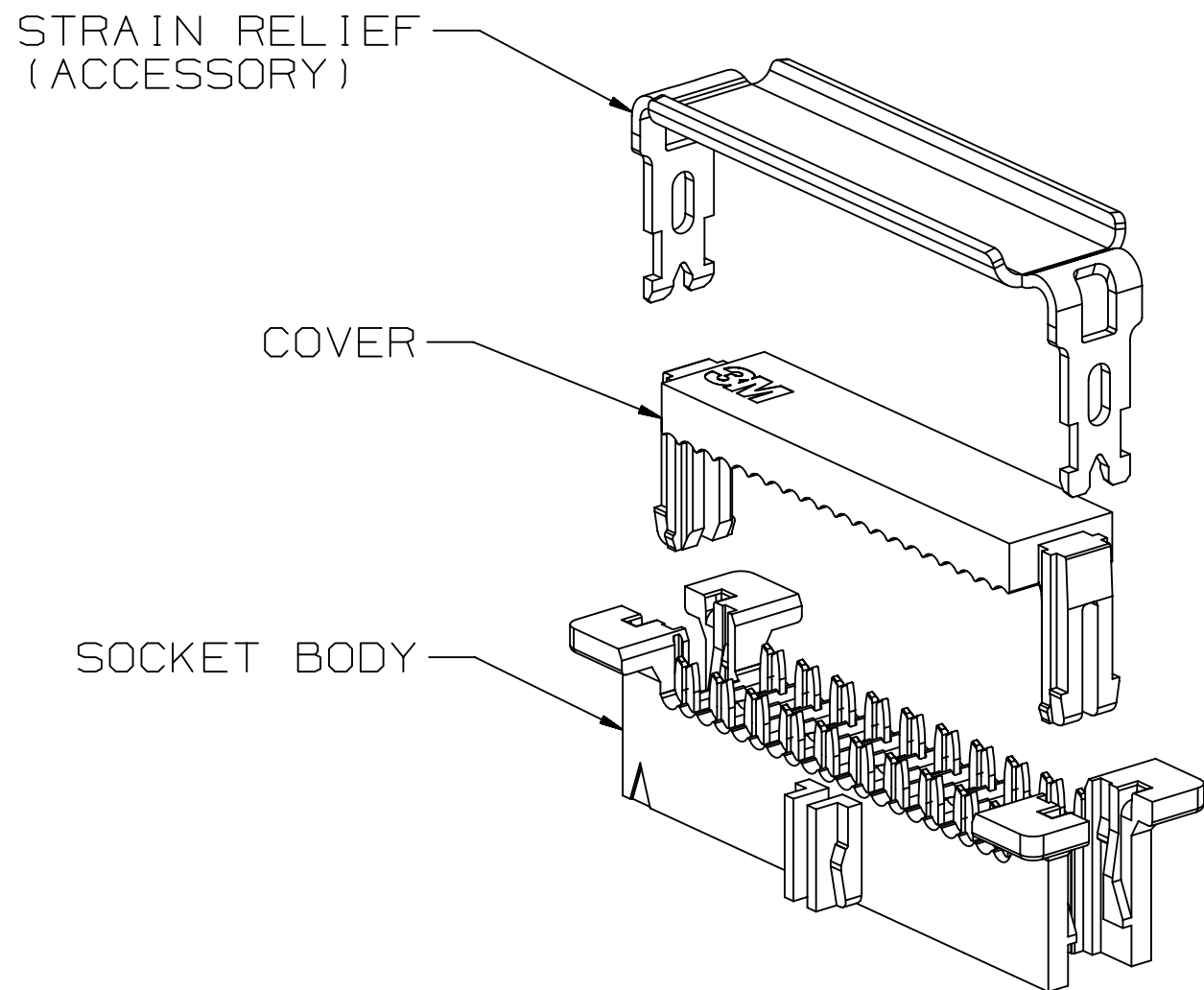
CENTER POLARIZATION
AND FRICTION LATCH



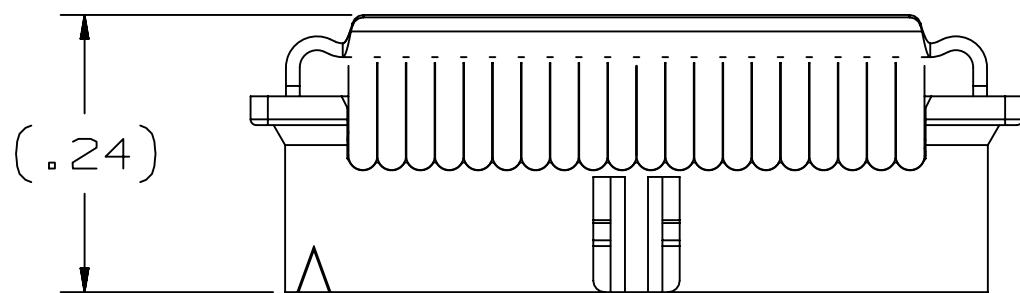
CENTER POLARIZATION
AND NO FRICTION LATCH



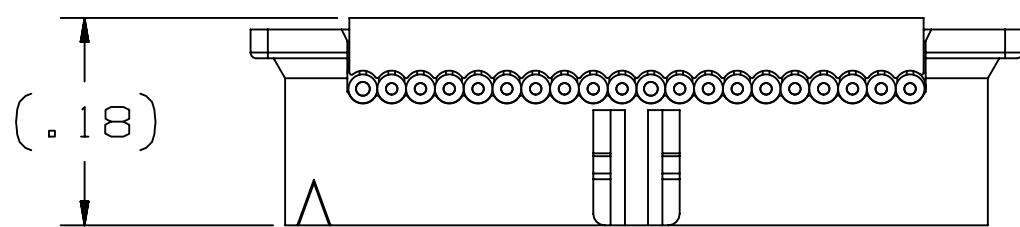
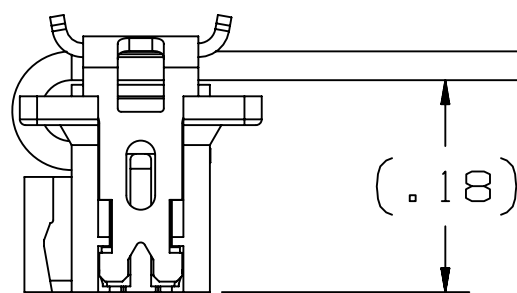
NO CENTER POLARIZATION
AND NO FRICTION LATCH



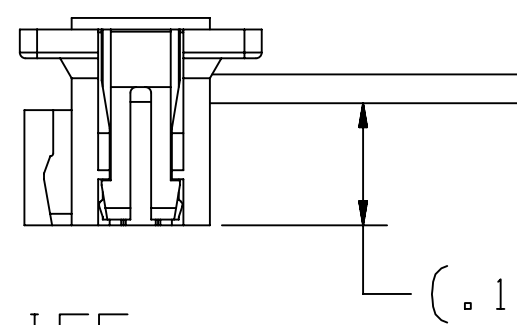
PRE-POSITIONED COVER



WITH OPTIONAL
STRAIN RELIEF



NO STRAIN RELIEF



TERMINATED
CONNECTOR

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PERFORMANCE:	
CURRENT RATING:	1.0A, UL 04P-50P, NOT FOR CURRENT INTERRUPTION 1.0A, CUL 04P-30P, NOT FOR CURRENT INTERRUPTION 0.75A, CUL 32P-50P, NOT FOR CURRENT INTERRUPTION 0.75A, ALL LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70 1.50A, 6 LINES ENERGIZED, 30°C TEMP RISE PER EIA 364-70
UL & CUL VOLTAGE RATING:	125V _{AC}
INSULATION RESISTANCE:	> 1 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	1250V _{DC} AT SEA LEVEL
OPERATING TEMPERATURE:	-65°C TO +125°C
UL & CUL OPERATING TEMPERATURE:	+130°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, 30 AWG, SOLID OR STRANDED.
RECOMMENDED CABLE:
SEE TABLE 2 FOR CABLE COMPATIBILITY.
 - MATING COMPATIBILITY:
3M 1.27mm (0.050"), SERIES 452 HEADER WITH LATCH/EJECT OPTION. TECH SHEETS TS-2437 AND TS-2396
 - REGULATORY INFORMATION:
VISIT 3M.com/regs
 - 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

ORDERING INFORMATION
FOR RAPID INSTALLATION ON
RIBBON CABLE APPLICATIONS

451 XX - 0 X 0 0 XX

SERIES

NUMBER OF POSITIONS
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) (ALL POS.)
1 = CP NO FRICTION LATCH (08 AND HIGHER POS.)
2 = CP WITH FRICTION LATCH (08 AND HIGHER POS.)

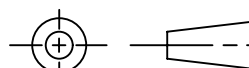
NOTE:
FRICTION LATCH (OPTION 2) IS NOT SUITABLE
FOR HEADER WITH LATCH EJECT OPTION

ACCESSORY: STRAIN RELIEF
3448-451XX

NUMBER OF POSITIONS

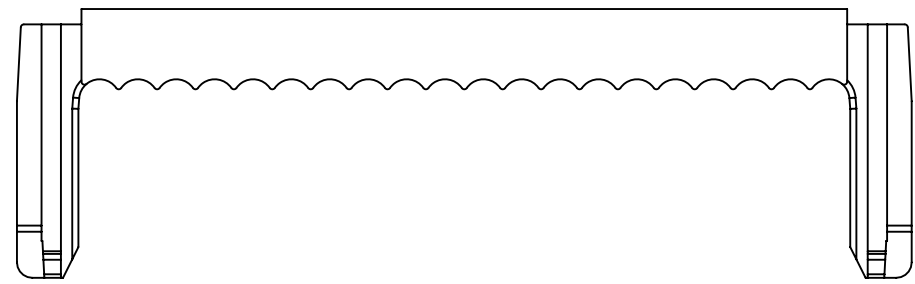
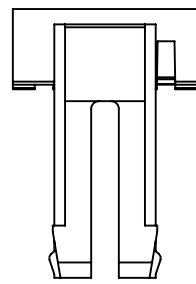
APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

NUMBER OF POSITIONS

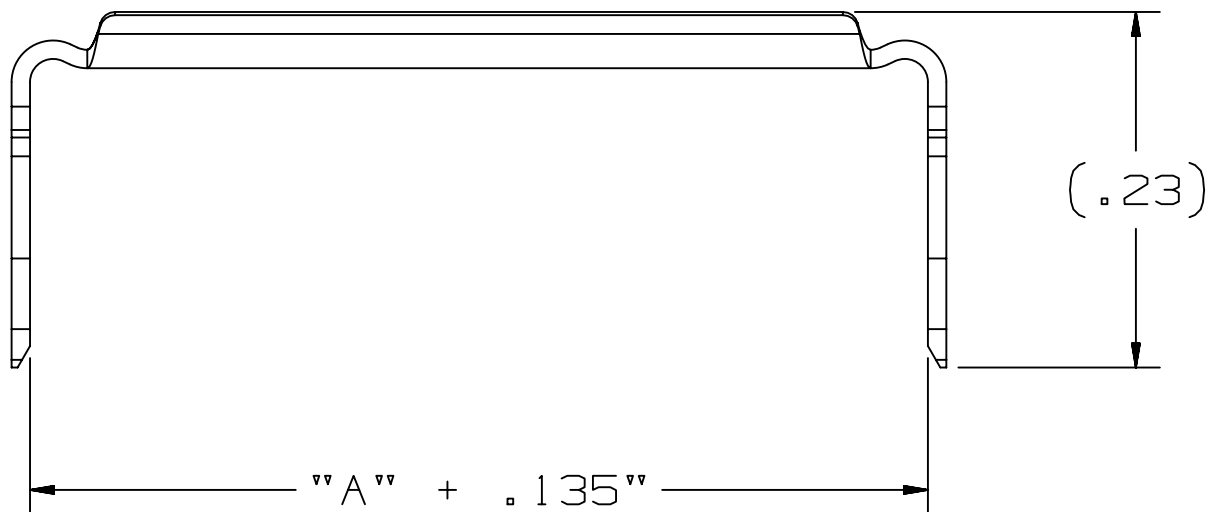
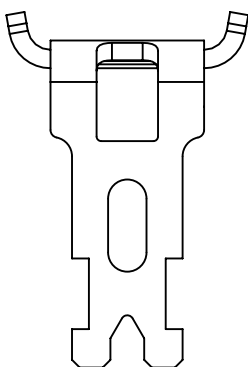
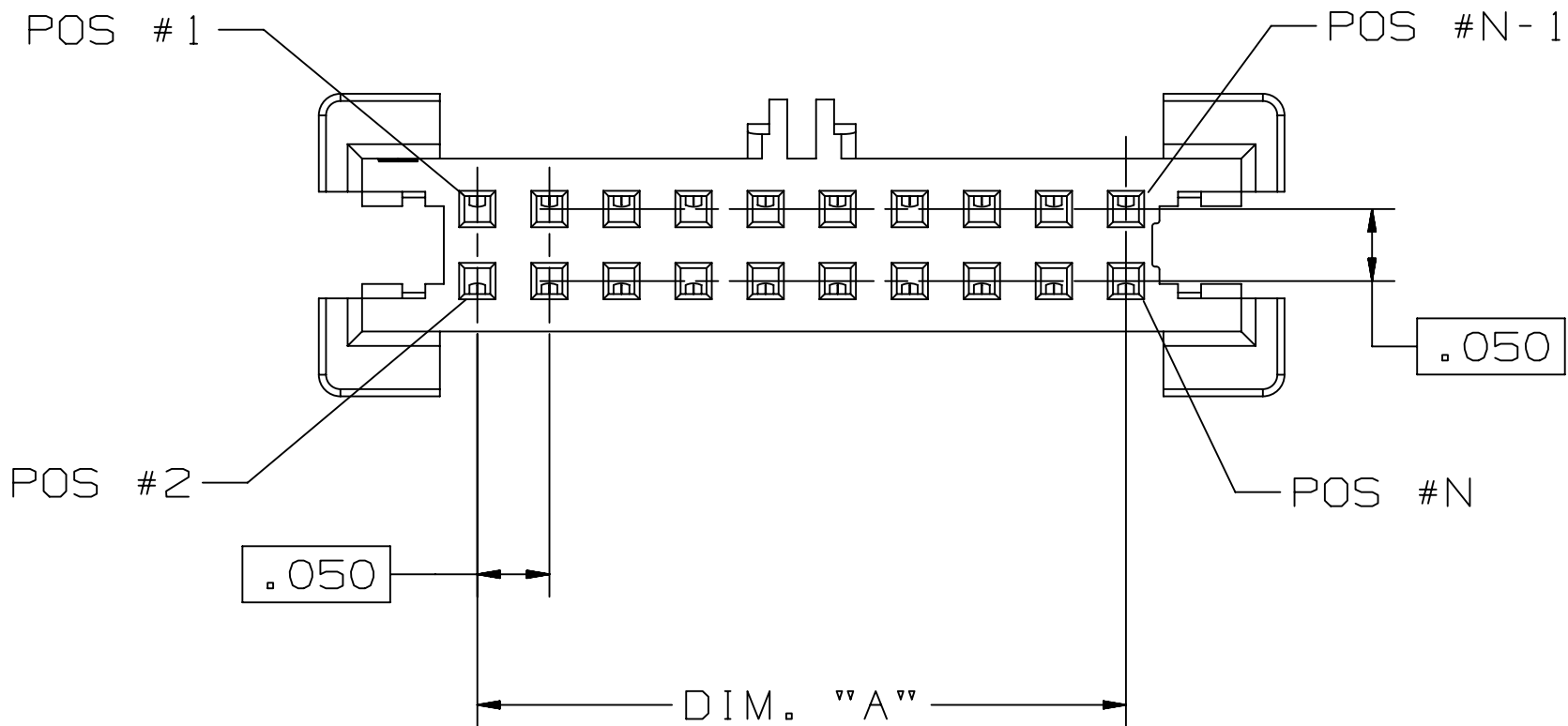
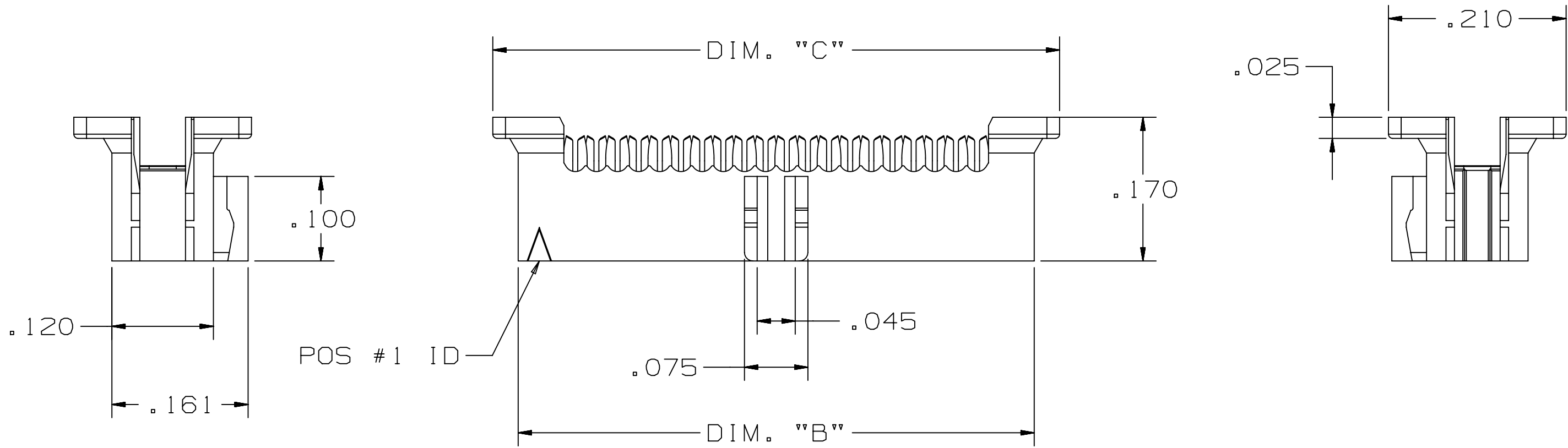
78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY		PRODUCTION RELEASE					
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DESIGN CODES		DESIGN CODES		DRFT	ARM	DATE		DATE	DATE
DIVISION		DIVISION CODE		CHKD	CHKD	DATE		DATE	DATE
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2022			
		THIRD ANGLE PROJECTION		INCHES		This document and the information it contains are 3M property and may not be reproduced or further distributed without the prior 3M permission, in whole or in part, for any purpose other than for 3M authorized purposes. All rights reserved.			
INTERPRET PER ASME Y14.5 - 2018		MAX. SURFACE ROUGHNESS		MILLIMETERS		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES			
☐ ALL SURFACES		☒ MARKED ONLY		CAGE NUMBER		DRAWING NO.		REV.	
				SIZE		D78-5100-2436-3		K	
				MODEL		451		DET. LISTS ☐ YES ☒ NO SHT 1 OF 3	

UL FILE NO: E68080

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



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
26	.600	.760	.820
30	.700	.860	.920
40	.950	1.110	1.170
50	1.200	1.360	1.420

TABLE 2	
COMPATABLE RIBBON CABLE	
1	3M™ ROUND CONDUCTOR FLAT CABLE, 3754 SERIES: PVC, ROUND STRANDED CONDUCTOR
2	3M™ ROUND CONDUCTOR FLAT CABLE, 3447 SERIES: PVC, ROUND SOLID CONDUCTOR
3	3M™ ROUND CONDUCTOR FLAT CABLE, 3756 SERIES: TPE, ROUND STRANDED CONDUCTOR
4	3M™ ROUND CONDUCTOR FLAT CABLE, 3749 SERIES: TPE, ROUND SOLID CONDUCTOR
5	3M™ ROUND CONDUCTOR FLAT CABLE, 3609 SERIES: FEP, ROUND STRANDED CONDUCTOR
6	3M™ ROUND CONDUCTOR FLAT CABLE, 3604 SERIES: FEP, ROUND SOLID CONDUCTOR
7	3M™ ROUND CONDUCTOR FLAT CABLE, HF447 SERIES: PO, HALOGEN FREE, ROUND SOLID CONDUCTOR
8	3M™ ROUND CONDUCTOR FLAT CONTROLLED IMPEDANCE CABLE, 7700 SERIES: PO, SHIELDED, ROUND SOLID CONDUCTOR

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K	106347	AUG 19,2022 ADD TABLE 2 FOR CABLE	JNC	SAN
J	105041	MAY 26,2022 REVISE PERFORMANCE SECTION	JNC	SAN
H	100200	OCT 19,2021 ADD POS 26, 40, 50	JNC	SAN
G	92270	AUG 19,2020 ADD NOTES AND VIEWS	JNC	SAN
F	56988	SEP 24,2014 REVISE PERFORMANCE CHART	JNC	SN
E	54514	MAY 07,2014 ADD UL LOGO	SJS	SAN
D	51884	JAN 08,2014 ADD DESIGN REF, UPDATE TITLE, ADD TS	SJS	SAN
C	50290	OCT 08,2013 REVISE NOTES 1, 3, 8 & OPERATING TEMP.	JNC	SN
B	48635	JUL 12,2013 MATCH TEXT FONTS & ADD NOTE 10	JNC	SN
A	46797	MAR 25,2013 PRODUCTION RELEASE	JNC	SAN
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	ARM	DATE FEB 11,2011	MFG	DATE
CHKD	DATE	APPRV SAN	DATE	FEB 11,2011

78-5100-2396-9 78-5100-2437-1		NEXT ASSEMBLY	
DESIGN REFERENCE	DIVISION CODE	EMSD	
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES .0 ±.1 .00 ±.02 .000 ±.010 .0000 ±.005	MILLIMETERS 0 ± .0 ± .00 ± .000 ±
MAX SURFACE ROUGHNESS	ALL SURFACES	ANGLES	
MARKED ONLY			

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TITLE		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES	
CAGE NUMBER	SIZE	DRAWING NO.	REV.
D	78-5100-2436-3	K	
MODEL	451	LISTS	YES NO
SHT	2 OF 3		

8

7

6

5

4

3

2

1

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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78-5100-2396-9
78-5100-2437-1

DESIGN REFERENCENEXT ASSEMBLY

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THIRD ANGLE PROJECTION

MAX. SURFACE ROUGHNESS
ALL SURFACES
MARKED ONLY

SCALE
4
1

TOLERANCES EXCEPT AS NOTED

INCHES
±.1
±.02
±.010
±.005

MILLIMETERS
0
±
0
±
0.00
±
0.00
±

ANGLES ±

REV
ECO

DATE
FEB 11, 2011

ISSUE DATE AND DESCRIPTION

DRFT
ARM

DATE
FEB 11, 2011

CHKD

DATE
FEB 11, 2011

APPR
SAN

DATE
FEB 11, 2011

3M

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St. Paul,
MN 55144

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

CAGE NUMBER
D78-5100-2436-3

SIZE
DRAWING NO.
451

REV.
REV.
K

DET
LISTS
YES
NO
SHT 3 OF 3

78-5100-2436-3
Revision
K

K106347AUG 19, 2022ADD TABLE 2 FOR CABLEJNC SAN

J105041MAY 26, 2022REVISE PERFORMANCE SECTIONJNC SAN

H100200OCT 19, 2021ADD POS 26, 40, 50JNC SAN

G92270AUG 19, 2020ADD NOTES AND VIEWSJNC SAN

F56988SEP 24, 2014REVISE PERFORMANCE CHARTJNC SN

E54514MAY 07, 2014ADD UL LOGOSJS SAN

D51884JAN 08, 2014ADD DESIGN REF, UPDATE TITLE, ADD TS SJS SAN

C50290OCT 08, 2013REVISE NOTES 1, 3, B & OPERATING TEMP.JNC SN

B48635JUL 12, 2013MATCH TEXT FONTS & ADD NOTE 10JNC SN

A46797MAR 25, 2013PRODUCTION RELEASEJNC SAN