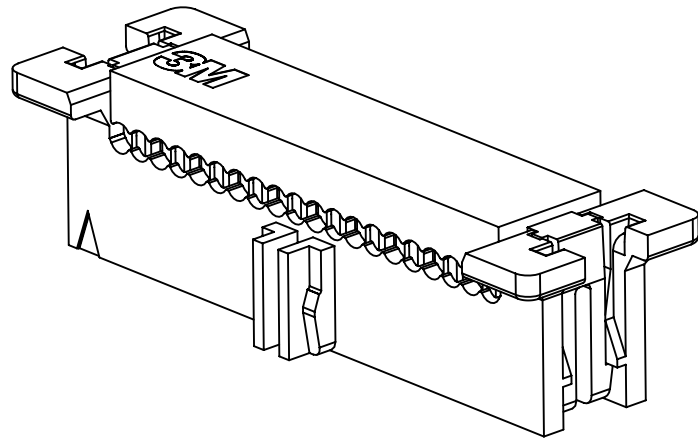
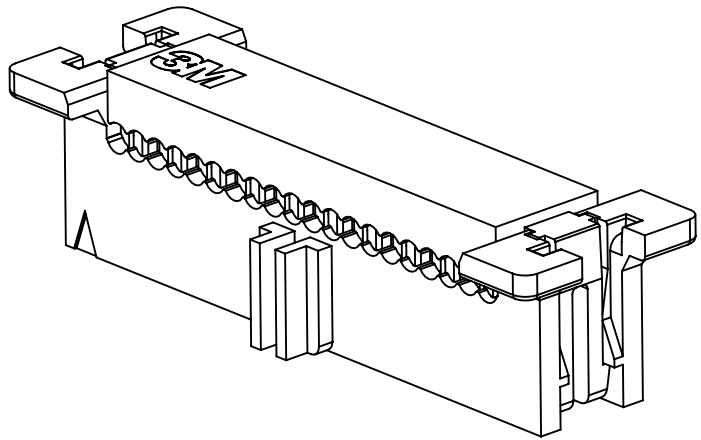


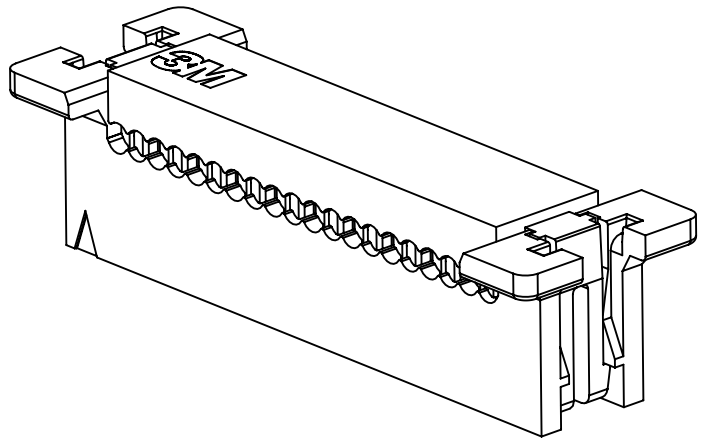
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



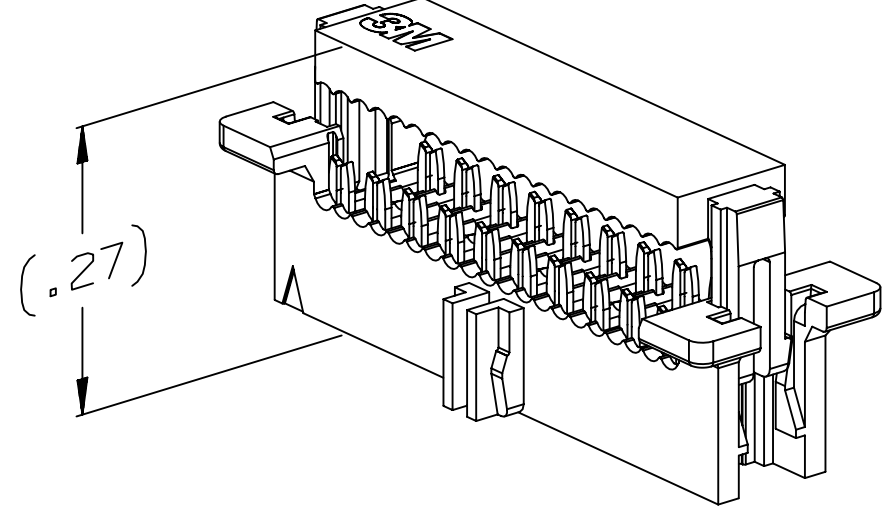
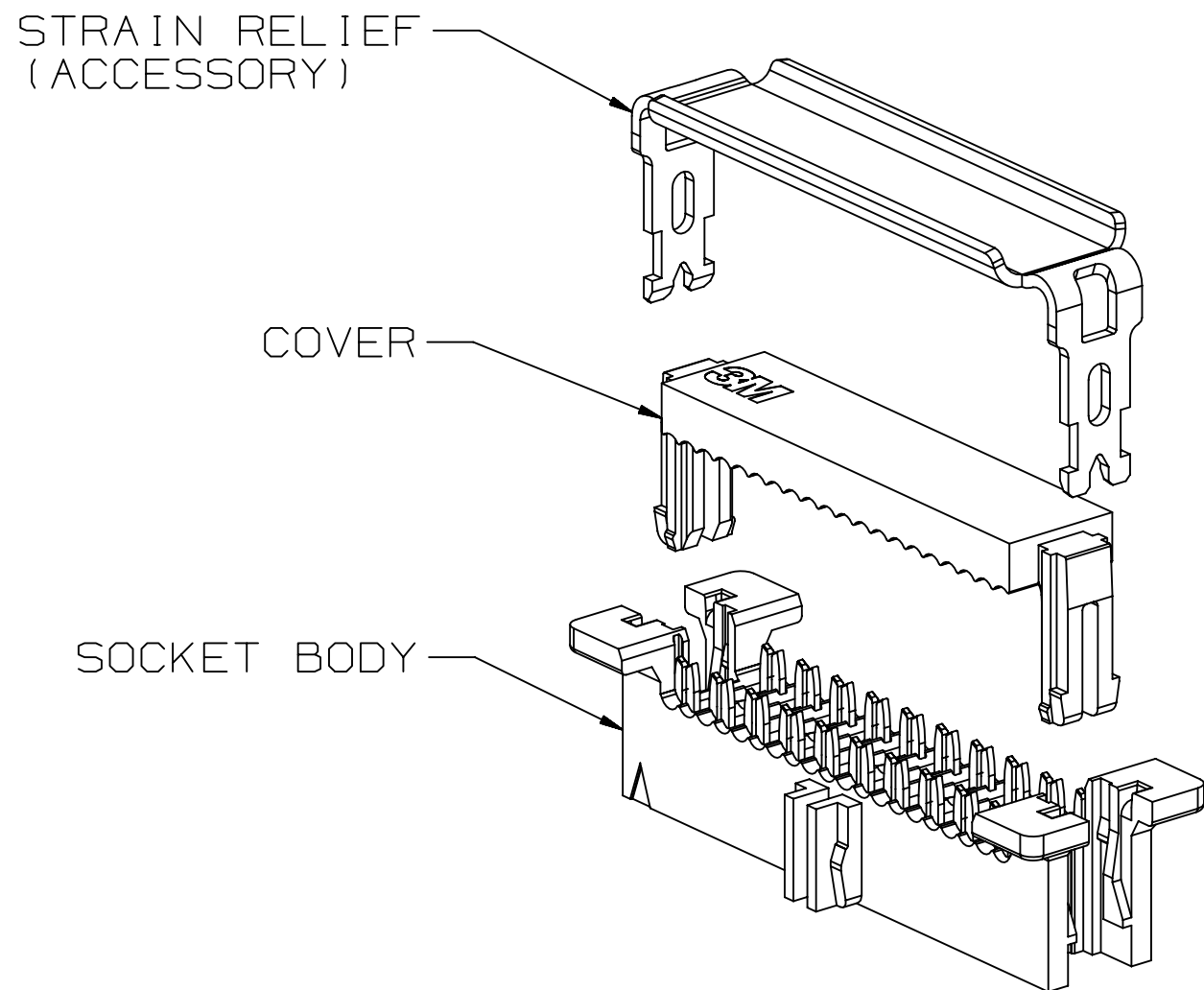
CENTER POLARIZATION
AND FRICTION LATCH



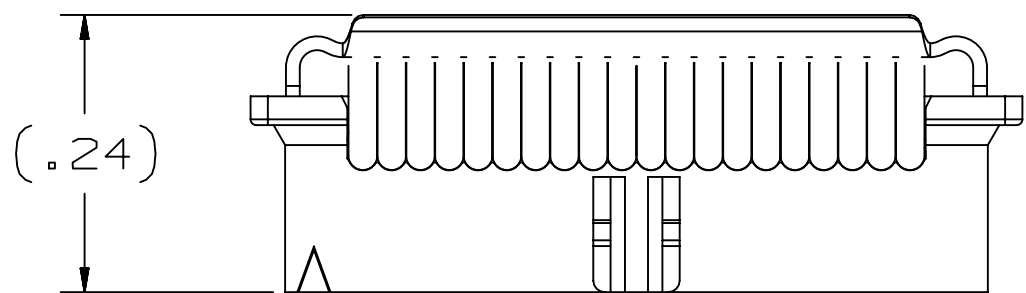
CENTER POLARIZATION
AND NO FRICTION LATCH



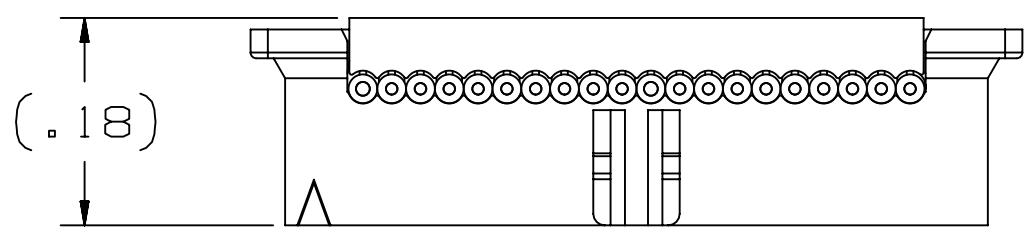
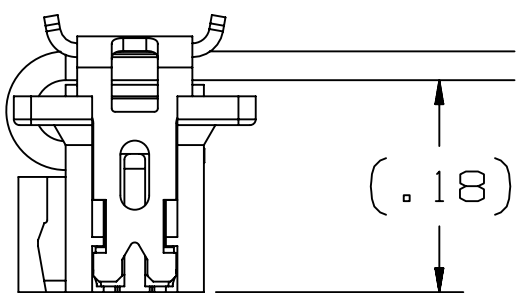
NO CENTER POLARIZATION
AND NO FRICTION LATCH



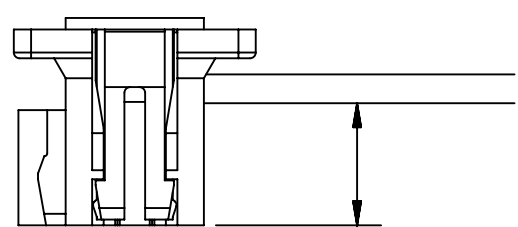
PRE-POSITIONED COVER



WITH OPTIONAL
STRAIN RELIEF



NO STRAIN RELIEF



TERMINATED
CONNECTOR

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<http://www.3M.com/interconnect>

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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		INTERPRET PER ASME Y14.5 - 2018		INCHES		3M St. Paul, MN 55144 This document and the information it contains are 3M property and may not be reproduced on further distribution without the written permission of 3M. All rights disclosed other than for 3M authorized purposes. All rights reserved.			
MAX SURFACE ROUGHNESS		ALL SURFACES		MILLIMETERS		TITLE			
MARKED ONLY		MARKED ONLY		ANGLES		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES			
CAGE NUMBER		SIZE		DRAWING NO.		REV.		DATE	
D		78-5100-2436-3		K		SHT 1 OF 3		DATE	
MODEL		451		LISTS		YES YES NO		SHT 1 OF 3	

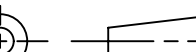
UL FILE NO: E68080

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

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	
LINE	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

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 REF	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	APPVAL SAN	DATE FEB 11,2011

78-5100-2396-9		A 46797		MAR 23, 2013		JNC		SAR	
78-5100-2437-1				PRODUCTION RELEASE					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ACCESS CODES				DRFT DATE FEB 11, 2011		MFG DATE			
				ARM DATE		APPROVAL SAN		DATE FEB 11, 2011	
DIVISION		DIVISION CODE EMSD		 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and should not be reproduced further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED							
SCALE 1/1		INCHES .00 ±.02 .000 ±.010 .0000 ±.005		TITLE		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES			
 THIRD ANGLE PROJECTION		MILLIMETERS 0 .0 .00 .000		CAGE NUMBER		SIZE DRAWING NO. D 78-5100-2436-3			
INTERPRET PER ASME Y14.5 2018		MAX SURFACE ROUGHNESS 0 .00 .000		MODEL		REV. K			
☒ MARKED SURFACES ☐ UNMARKED ONLY		ANGLES ±		451		DET. LISTS ☐ YES ☒ NO SHT 2 OF 2			

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ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

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 REFERENCE

NEXT ASSEMBLY

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX. SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

SCALE

41

TOLERANCES EXCEPT AS NOTED

INCHES

0.0 ± .1
.00 ± .02
.000 ± .010
.0000 ± .005

MILLIMETERS

0 ±
.0 ±
.00 ±
.000 ±

ANGLES

±

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

SIZE

DRAWING NO.

REV.

MODEL

451

DET

LISTS

YES

NO

SHT 3 OF 3

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DATE

FEB 11, 2011

DATE

FEB 11, 2011

DATE

FEB 11, 2011

DATE

FEB 11, 2011

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, B & 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

78-5100-2436-3

Revision

K