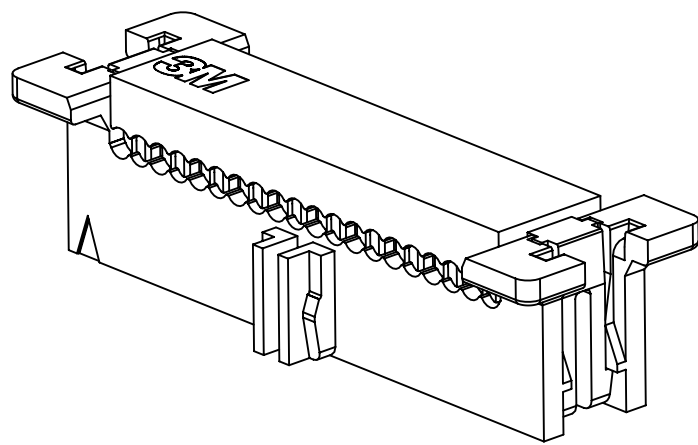
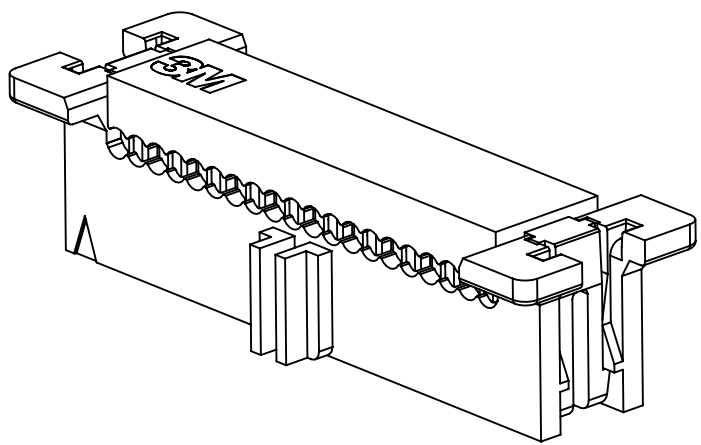


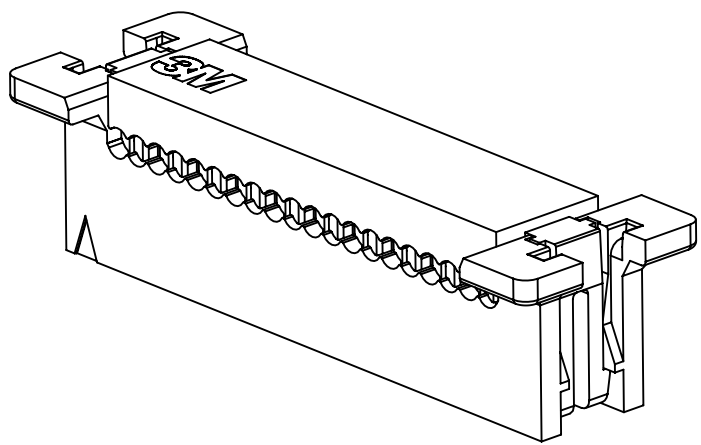
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES
.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE



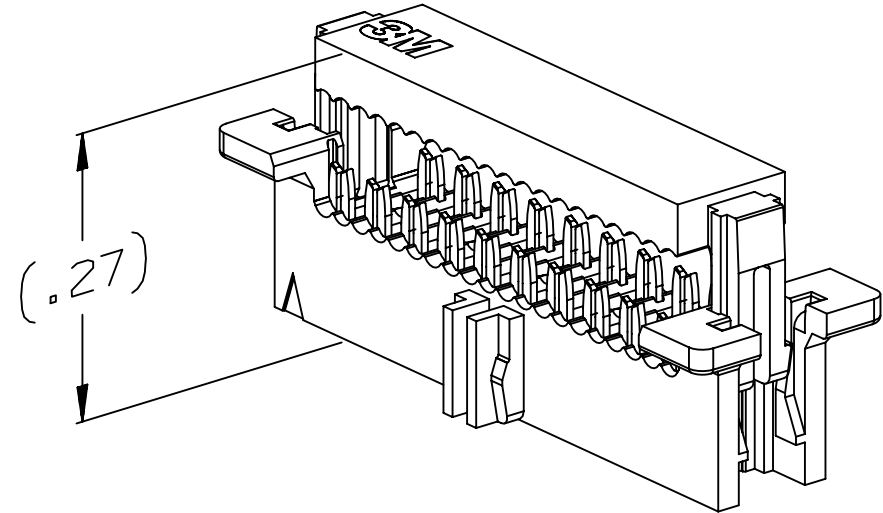
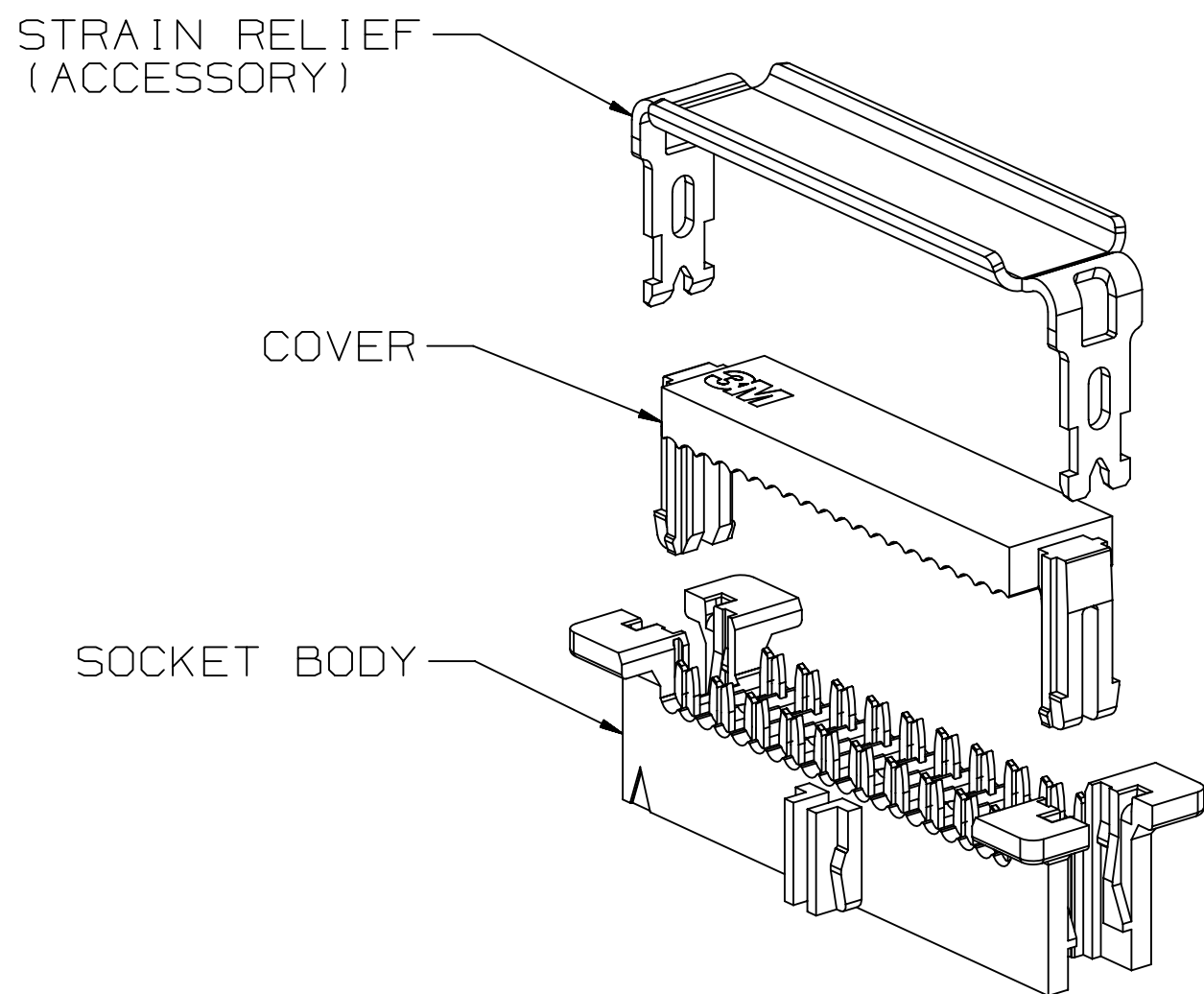
CENTER POLARIZATION
AND FRICTION LATCH



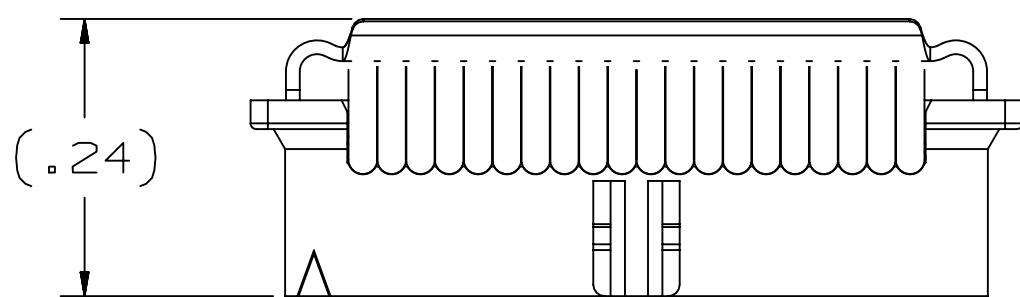
CENTER POLARIZATION
AND NO FRICTION LATCH



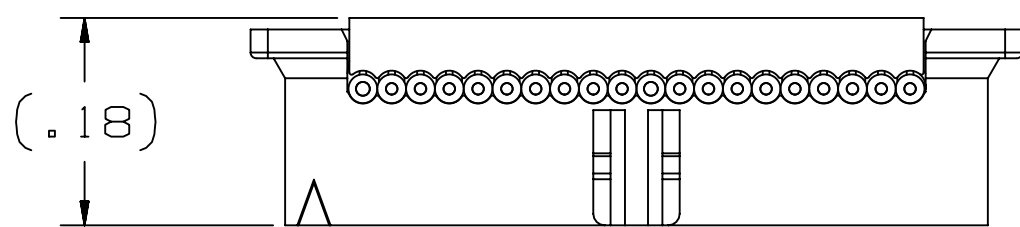
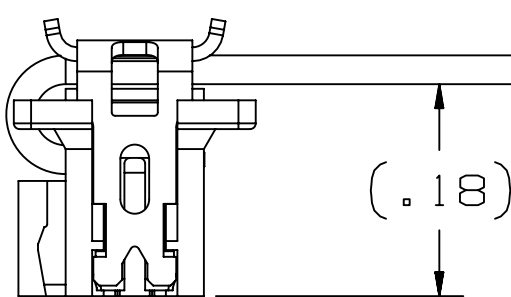
NO CENTER POLARIZATION
AND NO FRICTION LATCH



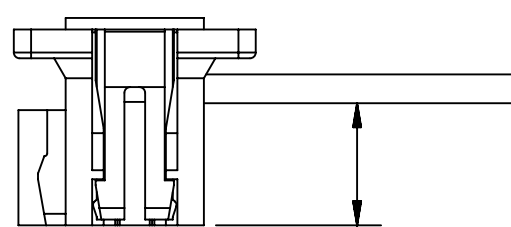
PRE-POSITIONED COVER



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		REV		ECO		PRODUCTION RELEASE		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DESIGN REFERENCE		NEXT ASSEMBLY		DRFT		ARM		DATE		FEB 11, 2011		MFG		DATE	
DESIGN CODES		DESIGN CODES		CHKD		CHKD		DATE		APRIL SAN		DATE		FEB 11, 2011	
DIVISION		DIVISION CODE		EMSD		3M		3M Center		© 3M COPYRIGHT 2002		This document contains the information it contains are 3M property and may not be reproduced or further distributed without the written permission of 3M. All rights reserved.		All rights reserved.	
DO NOT SCALE DRAWING		SCALE 1		TOLERANCES EXCEPT AS NOTED		3M		St. Paul, MN 55144		This document contains the information it contains are 3M property and may not be reproduced or further distributed without the written permission of 3M. All rights reserved.		All rights reserved.		All rights reserved.	
		THIRD ANGLE PROJECTION		INCHES 0.0 ±.01 0.00 ±.02 0.000 ±.010 0.0000 ±.005		TITLE		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE NUMBER		D		78-5100-2436-3	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ±.005 0.00 ±.005 0.000 ±.005		ANGLES		MODEL		451		LISTS		YES YES NO		SHT 1 OF 3	
MAX SURFACE ROUGHNESS		ALL SURFACES		MARKED ONLY		DATE		FEB 11, 2011		APRIL SAN		DATE		FEB 11, 2011	

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	MF0	DATE
CHKD		DATE	APPL SAN	DATE 11,2011

78-5100-2396-9		A 46797		MAR 25, 2013		JNC		SAN	
78-5100-2437-1				PRODUCTION RELEASE					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ACCESS CODES				DRFT ARM		MFG		DATE	
				CHWD		DATE FEB 11, 2011			
DIVISION		DIVISION CODE		APPL SAN		DATE FEB 11, 2011			
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		THIRD ANGLE PROJECTION		3M 3M Center St. Paul, MN 55144		TITLE			
INTERPRET PER ASME Y14.5 - 2018		INCHES .00 ±.1 .00 ±.02 .0000 ±.010 .0000 ±.005		RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES					
MAX SURFACE ROUGHNESS ALL SURFACES ✓ MARKED ONLY		MILLIMETERS 0 ± .0 .00 ± .000 ±		CAGE NUMBER D51		DRAWING NO. 78-5100-2436-3		REV. K	
		ANGLES ±		MODEL 451		DET. LISTS YES ☒ NO		SHT 2 OF 3	

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ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 451 SERIES

.050" X .050" (1.27MM X 1.27MM) FOR .025" PITCH CABLE

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DIVISION DO NOT SCALE DRAWING		SCALE 4 1	TOLERANCES EXCEPT AS NOTED INCHES .0 ±.1 .00 ±.02 .000 ±.010 .0000 ±.005 MILLIMETERS 0 ± .0 ± .00 ± .000 ±	DATE FEB 11,2011
THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 2018 MAX SURFACE ROUGHNESS ALL SURFACES MARKED ONLY		3M 3M Center St. Paul, MN 55144	© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and may not be reproduced or further disclosed without written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.	
TITLE RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES		CAGE NUMBER D	SIZE 451	DRAWING NO. 78-5100-2436-3
MODEL 451		DET. LISTS	OYES NO	REV. K
		SHT 3 OF 3		