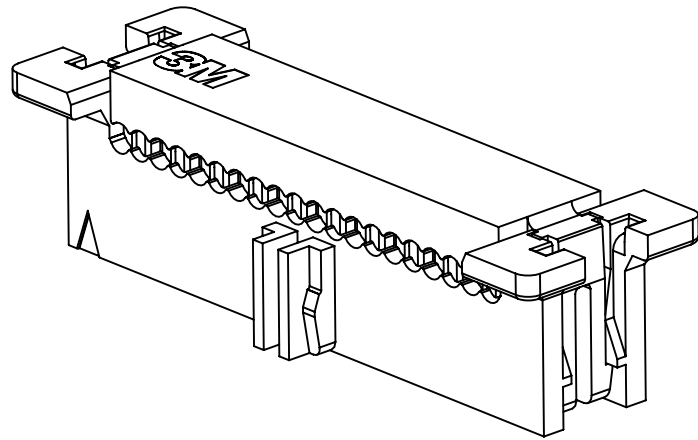
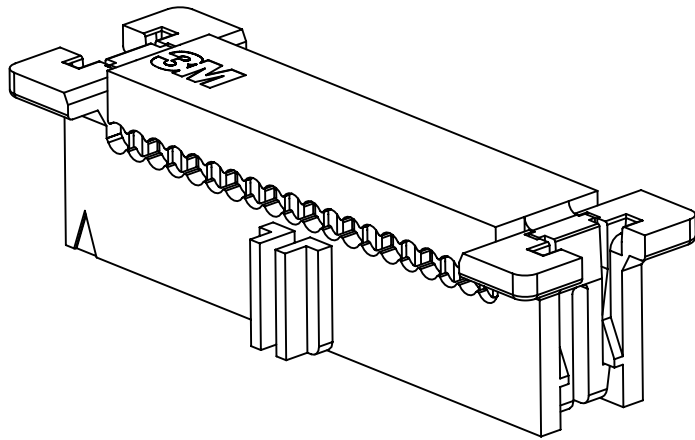


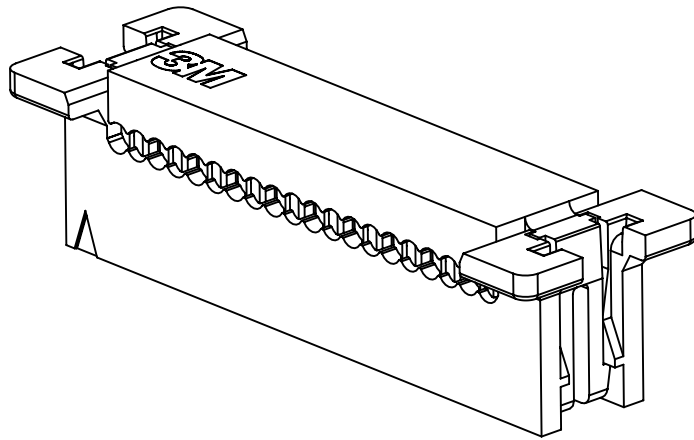
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
.05" X .05" (1.27mm X 1.27mm) PITCH, 451 SERIES



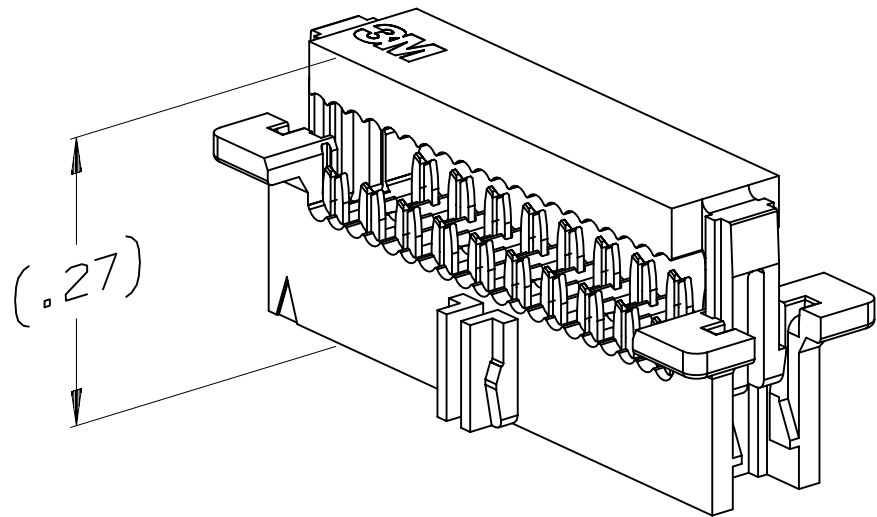
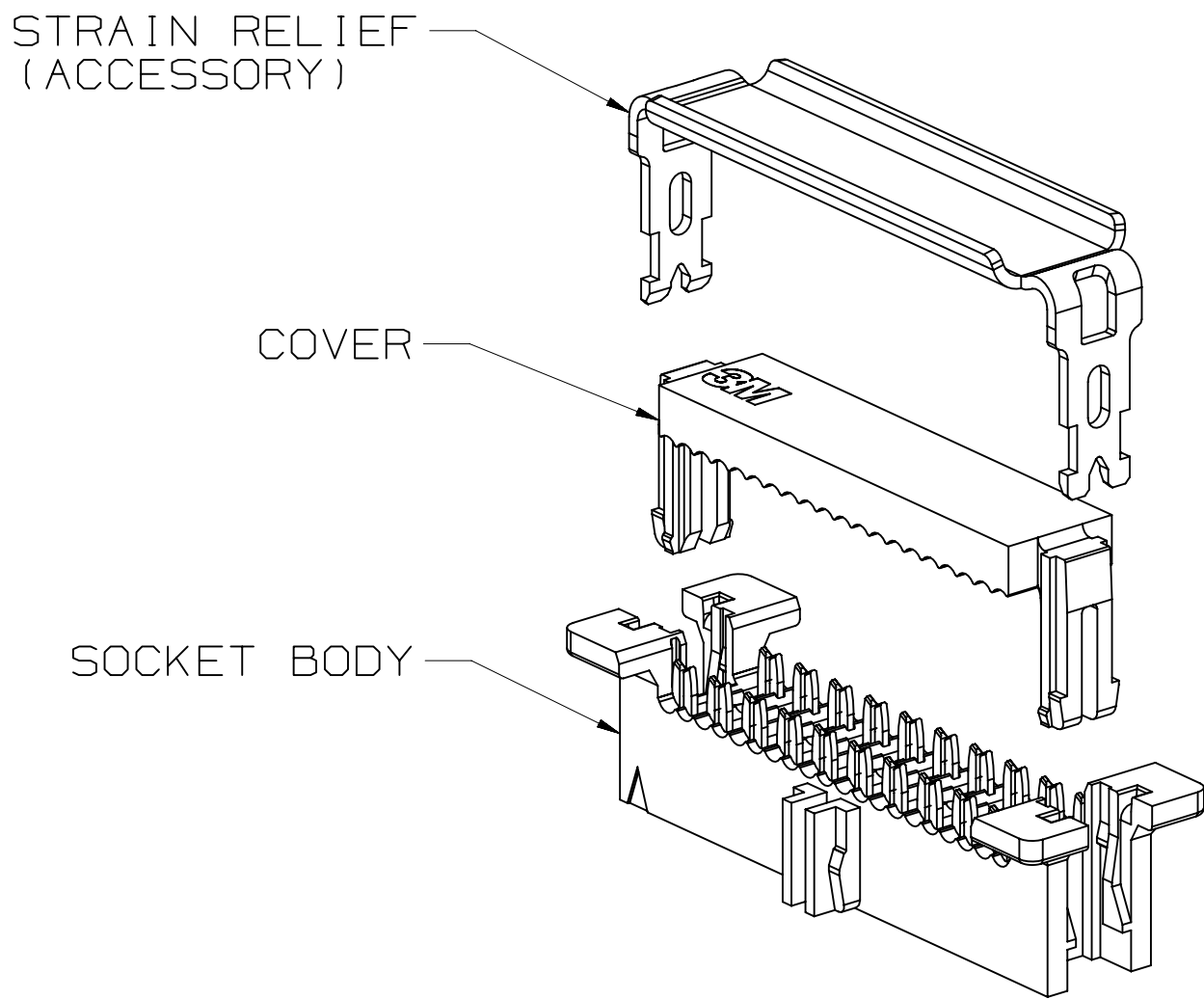
CENTER POLARIZATION
AND FRICTION LATCH



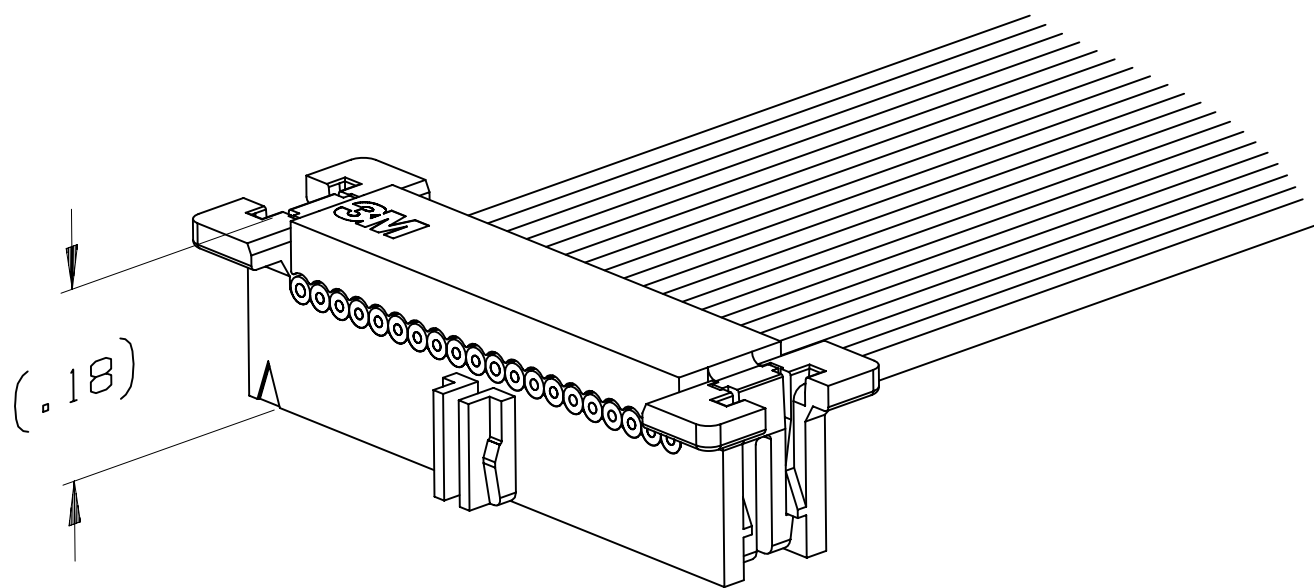
CENTER POLARIZATION
AND NO FRICTION LATCH



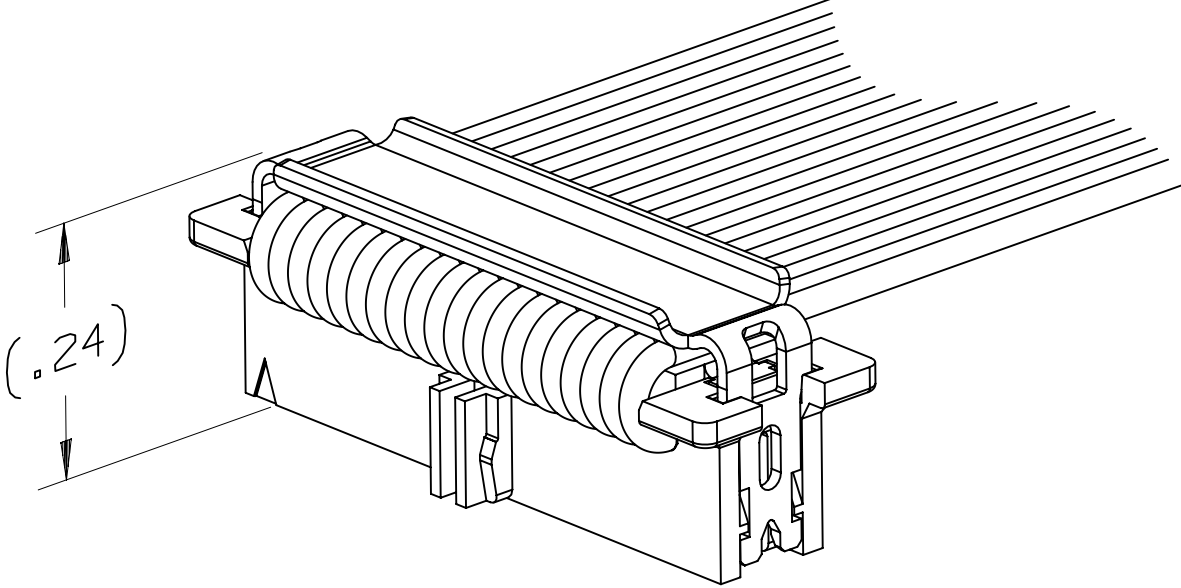
NO CENTER POLARIZATION
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL
STRAIN RELIEF

TERMINATED
CONNECTOR

3M™ ELECTRONIC 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

Performance:	
Current Rating:	1.0 A, all lines energized, 30C temp rise per EIA 364-70 1.5 A, 6 lines energized, 30C temp rise per EIA 364-70 2.5 A, 1 line energized, 30C temp rise per EIA 364-70
Voltage Rating:	125V min
Insulation Resistance:	> 1 × 10 ⁹ Ohms at 500 VDC
Withstanding Voltage:	1250VACrms at sea level
Operating Temperature:	-55°C to +105°C

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

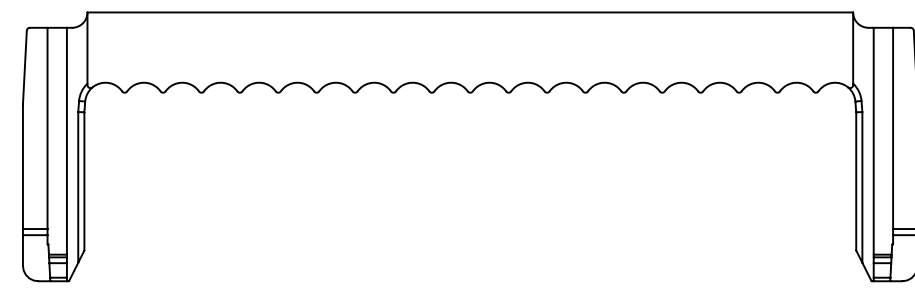
POSITION COUNT
04 - 30

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

POSITION COUNT
04 - 30

- NOTES
- MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: 304 STAINLESS
STEEL
CONTACTS: COPPER 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, PO, TPE,
OR FEP CABLE 30 AWG, SOLID
OR 7 STRAND.
RECOMMENDED:
3M 3754, 3749, HF447 SERIES
CABLE.
 - MATING COMPATIBILITY:
3M .050" X .050" SERIES 452
HEADER WITH LATCH/EJECT
OPTION.
 - 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# 78-9101-5361-4
 - OTHER PIN COUNTS AVAILABLE
UPON REQUEST. CONTACT 3M.
 - PACKAGING:
SOCKET: TRAY
COVER: BAG

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ARM	CODES	ARM	CODES	ARM	CODES	DATE	DATE	DATE	DATE
ARM	CODES	ARM	CODES	ARM	CODES	FEB 11, 2011	FEB 11, 2011	FEB 11, 2011	FEB 11, 2011
DIVISION		DIVISION CODE		3M		© 3M COPYRIGHT 2013			
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DO NOT SCALE DRAWING		SCALE 6-1		TOLERANCES EXCEPT AS NOTED		INCHES .00 ±.01 .00 ±.02 .000 ±.010 .0000 ±.005			
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 ±.00 ±.00 ±.000 ±.005		MAX SURFACE ROUGHNESS 12.5 SURFACES 3.2 MARKED ONLY			
CAGE NUMBER		SIZE		DRAWING NO.		REV.			
D		78-5100-2436-3		B		SHT 1 OF 2			



C



78-5100-2436-3	B
DRAWING NUMBER	REVISION

B

Am

B	48635	JUL 12, 2013		JNC	SN	
MATCH TEXT FONTS & ADD NOTE 10						
A	46797	MAR 25, 2013		JNC	SAN	
PRODUCTION RELEASE						
REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
DRFT AFRM		DATE FEB 11, 2011		DATE		
CHKD		APPROV SAN		DATE FEB 11, 2011		

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
ASSEMBLY CODES				DRFT ARM		DATE FEB 11, 2011		MFG		DATE			
				CHKD		DATE		APPRV. SAN		DATE FEB 11, 2011			
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DO NOT SCALE DRAWING SCALE $\frac{4}{1}$				TOLERANCES EXCEPT AS NOTED INCHES .00 $\pm$.01 .00 $\pm$.02 .0000 $\pm$.010 .0000 $\pm$.005									
 THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 1994				MILLIMETERS 0 .0 .000 .000				3M St. Paul, MN 55144					
MAX SURFACE ROUGHNESS 1.6 SURFACES ☒ MARKED ONLY				TITLE RIBBON CABLE SOCKET, .05 X .05 PITCH, 451 SERIES				CAGE NUMBER D 78-5100-2436-3					
				SIZE DRAWING NO.				REV. B					
				MODEL				DET. LISTS ☐ YES ☒ NO SHT 2 OF 2					

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