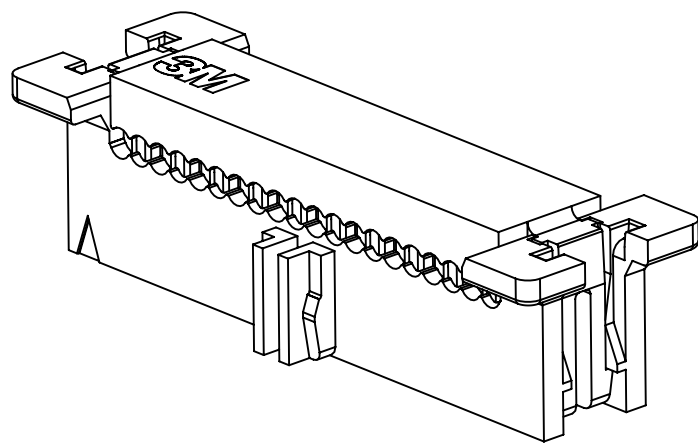
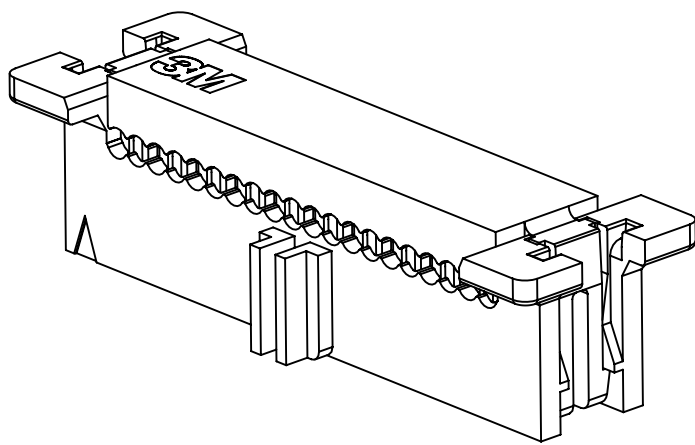


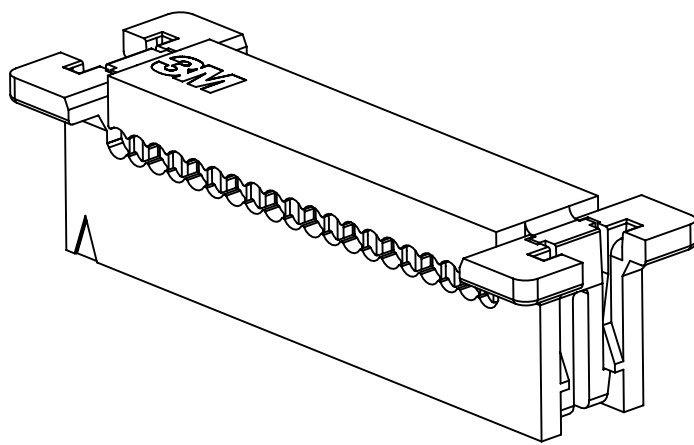
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,
.05" X .05" (1.27mm X 1.27mm) PITCH, 451 SERIES



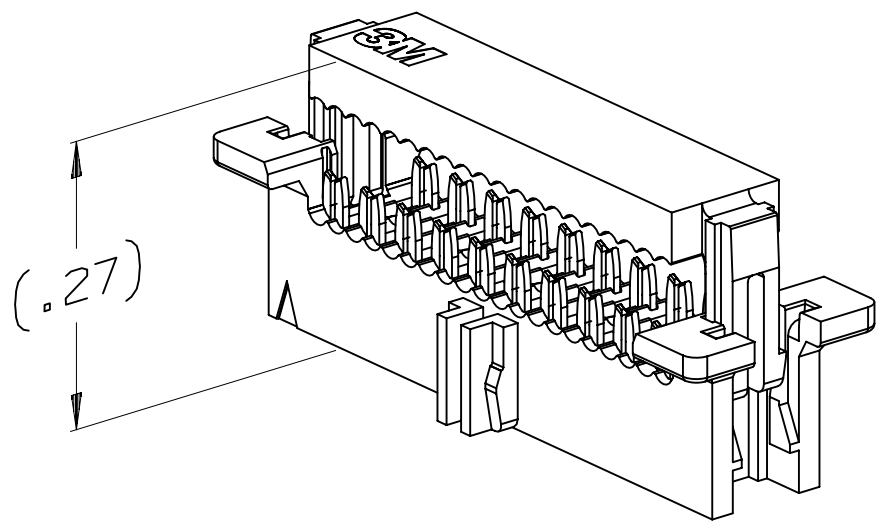
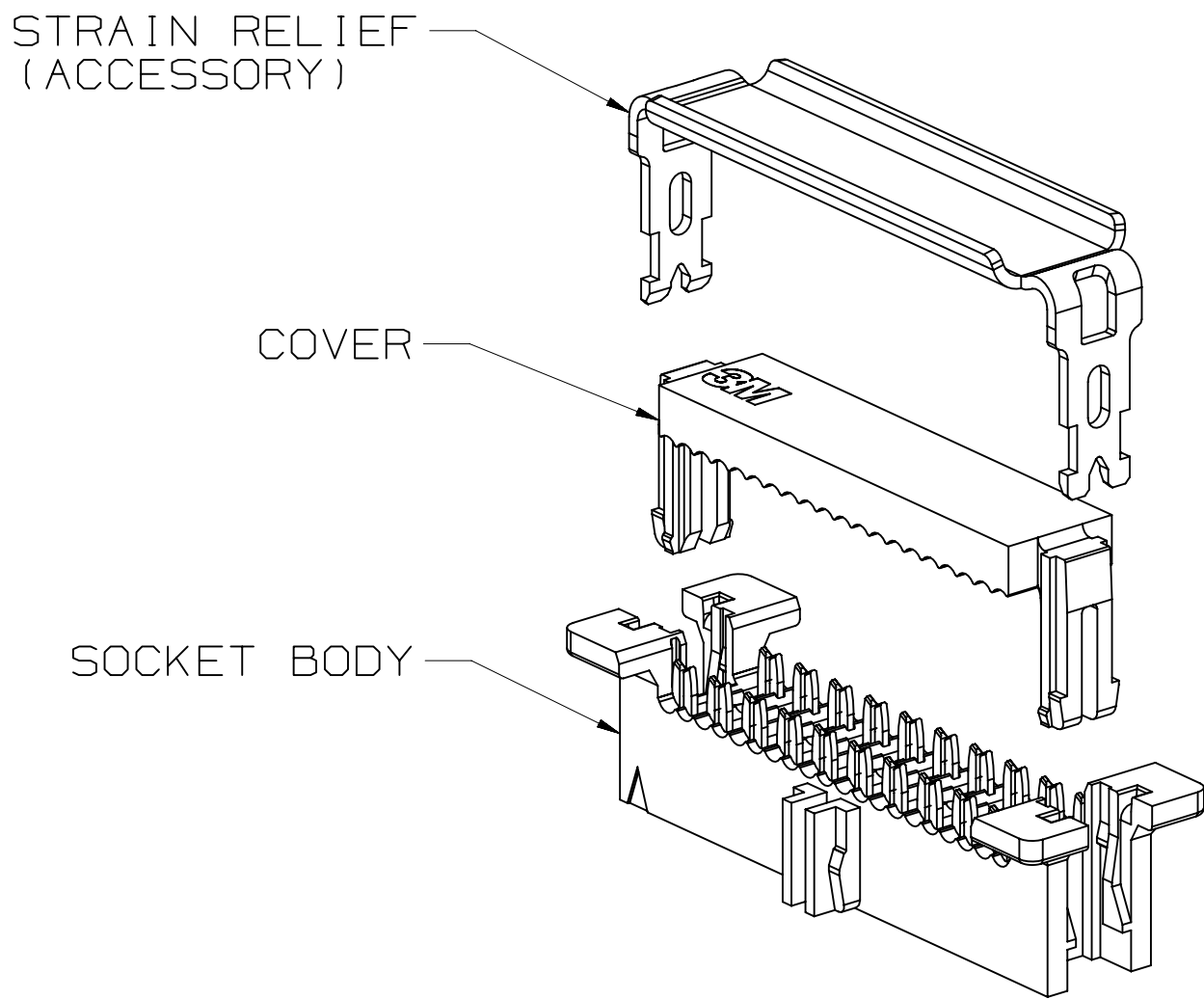
CENTER POLARIZATION
AND FRICTION LATCH



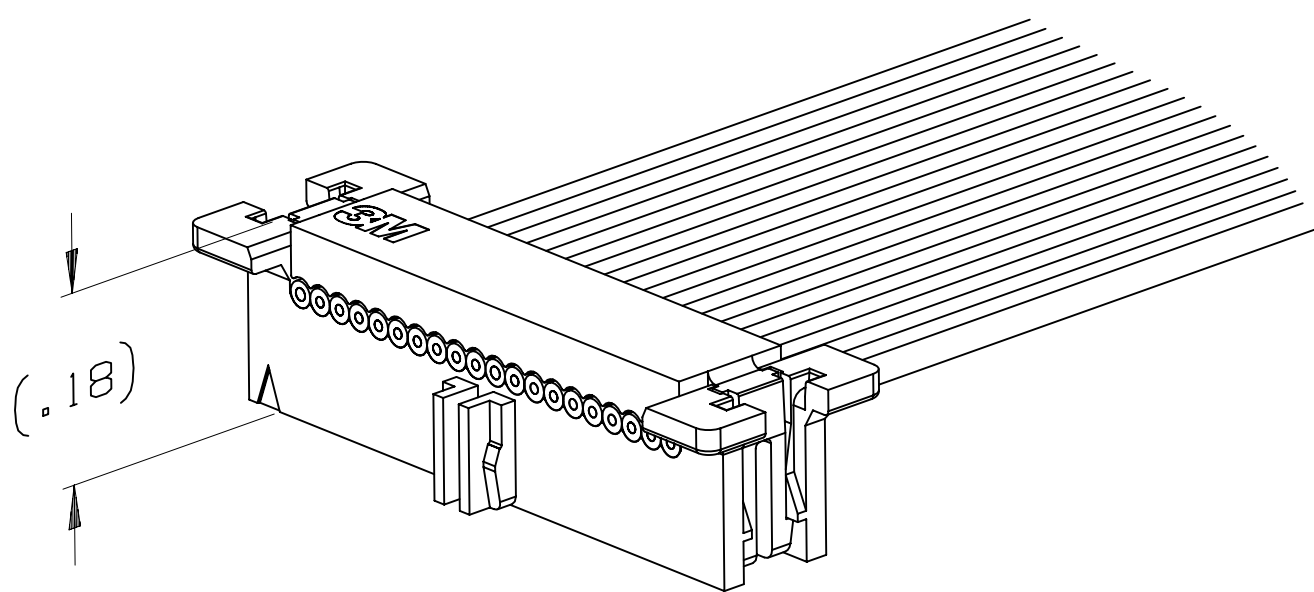
CENTER POLARIZATION
AND NO FRICTION LATCH



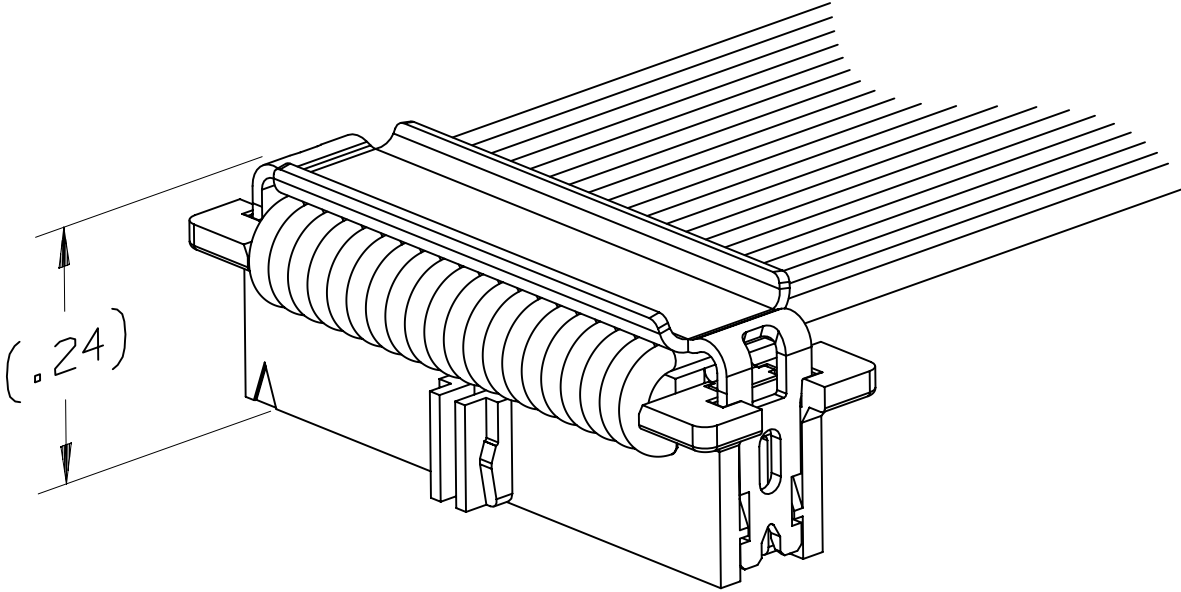
NO CENTER POLARIZATION
AND NO FRICTION LATCH



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

- NOTES
1. MATERIAL:
BODY: PBT, UL94V-0
COVER: PBT, UL94V-0
STRAIN RELIEF: 304 STAINLESS
STEEL
CONTACTS: COPPER ALLOY.
 2. PLATING:
50-150μ" NICKEL UNDERPLATE
30 = 30μ" MIN. GOLD ON WIPING
AREA
00 = FLASH GOLD ON WIPING AREA.
 3. 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.
 4. MATING COMPATIBILITY:
3M .050" X .050" SERIES 452
HEADER WITH LATCH/EJECT
OPTION.
 5. 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)
 6. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
 7. REFERENCE RELATED DOCUMENTS:
PRODUCT SPECIFICATION:
3M DOC. ID# 78-5102-0091-4.
 8. TOOLING AND INSTALLATION
INSTRUCTIONS:
3M DOC. ID# 78-9101-5361-4
 9. OTHER PIN COUNTS AVAILABLE
UPON REQUEST. CONTACT 3M.
 10. PACKAGING:
SOCKET: TRAY
COVER: BAG

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

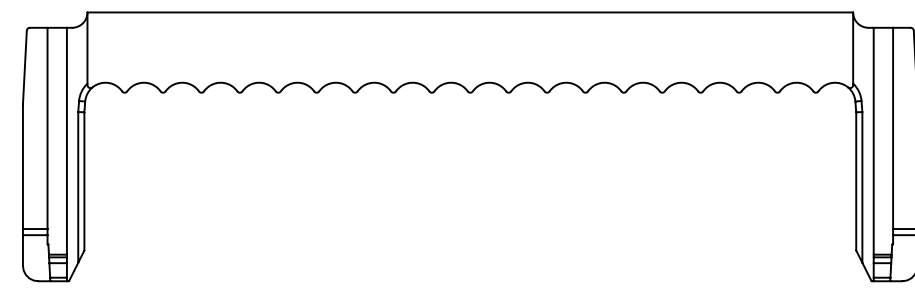
ACCESSORY: STRAIN RELIEF
3448-451XX

POSITION COUNT
04 - 30

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX

POSITION COUNT
04 - 30

DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
X		X		ARM		FEB 11, 2011		MFG		DATE		DATE	
X		X		CHKD		DATE		APPROV		DATE		DATE	
DIVISION		DIVISION CODE		Interconnect Solutions		ISD		3M		3M Center		3M	
DO NOT SCALE DRAWING		SCALE		6		1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		0		0		0		0		0	
MAX SURFACE ROUGHNESS		0.000		0.000		0.000		0.000		0.000		0.000	
MARKED ONLY		X		X		X		X		X		X	
CAGE NUMBER		SIZE		DRAWING NO.		REV.		MODEL		LISTS		YES	
D		78-5100-2436-3		B		SHT 1 OF 2		SHT 1 OF 2		SHT 1 OF 2		SHT 1 OF 2	



C



DISAGREE

B

Imaged: B.1 7/12/2013 2:35 PM UTC-05:00