NOTES AND BOM

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-33470-100
      - CONTACT PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR
      ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING,
      SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING,
      CRIMPING, AND TROUBLESHOOTING.
      - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED
      IN THE MATING INTERFACE/CONNECTOR DRAWINGS CHART.
      - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION
      (SEE PLR PRE-LOCK View SHEET 5).
   b. PRODUCT SPECIFICATION SEE:
      - STANDARD CONFIGURATION: PS-33471-000
      - UL V0 CONFIGURATION: PS-160105-0001
      CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY,
      RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY),
      TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND
      PRODUCT DEVIATIONS.
   c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PACKAGING CHART
   d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR
      PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
   e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS
      (COMPANY ID#13255)

2. DESIGN - MATERIALS:
   a. FOR BILL OF MATERIALS SEE:
      - STANDARD CONFIGURATION SD-33471-0002
      - UL V0 CONFIGURATION SD-160105-0002

3. DESIGN - GEOMETRY:
   a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR
      THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS.
      DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS
      DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
   b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
   c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
   d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
   e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD.
      THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION,
      AND CUSTOMER MATERIAL NUMBER.
   f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
   g. LASER MARKING:
      1. PART NUMBER
      2. DAY OF THE YEAR
      3. SHIFT
      4. YEAR
      FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

BACKSHELL CONFIGURATIONS

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<td>BACKSHELL CONFIGURATIONS</td>
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<td>CONFIGURATIONS</td>
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<td>3-6</td>
<td>KEY CONFIGURATIONS</td>
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<tr>
<td>5</td>
<td>RECEPTACLE CONNECTOR ASSEMBLY</td>
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<td>BACKSHELL NOTES</td>
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BACKSHELL NOTES (VALID UNLESS OTHERWISE SPECIFIED)

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-34951-001
      -DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY
      SPECIFIED IN MOLEX DRAWING SD-34971-001.
   b. SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
   c. COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPARATELY.
   d. BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
      -FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34949-0001.

CUSTOMER MODEL COMPONENTS
0 - BACKSHELL ONLY
1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

BACKSHELL CUSTOMER MODEL NUMBER LEGEND
34949-XXXX

CUSTOMER MODEL COMPONENTS
1 - WITH RIBS
2 - WITHOUT RIBS

MX150 CIRCUIT SIZE 02, 03, 04, 05, 06

RECEPTACLE SEALED ASSEMBLY
RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL
TABLE OF CONTENTS

1. GENERAL
   a. APPROVAL SPECIFICATION SEE AS-34741-00
      (CONTAINS PRODUCT INTRODUCTION, PRODUCT SUMMARY,
      CONNECTOR ASSEMBLY, PRODUCT INFORMATION, CONNECTOR
      TESTING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY
      CHECKS, ORDERING, AND REPLACEMENTS)

   b. CONTENTS OF THIS DOCUMENT
      MAT SEALS, RING SEALS: INHERENTLY LUBRICATED SILICONE
      CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
      MATERIALS, PRODUCT INTRODUCTION, PRODUCT SUMMARY,
      SPECIFICATION, PACKAGE SPECIFICATION, CS-33471-000

2. DESIGN - MATERIALS
   a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
      DESCRIPTION, PACKAGING INFORMATION, CONNECTOR
      ASSEMBLY, PACKAGING INFORMATION, CONNECTOR
      ASSEMBLY, PACKAGING INFORMATION, CONNECTOR

3. DESIGN - GEOMETRY
   a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA
      GENERALLY AVAILABLE AT www.molex.com.</text>
1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-34951-001
   - DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-031.
   - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
   - COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPARATELY.
   - BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
   - FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34949-0001.

BACKSHELL FEATURES
1 - WITH RIBS
2 - WITHOUT RIBS

CUSTOMER MODEL COMPONENTS
- BACKSHELL ONLY
- BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
- BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
- BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
- BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

BACKSHELL CUSTOMER MODEL NUMBER LEGEND
FORMAT: master-tb-prod-D
REVISION: J
DATE: 2020/01/14

PRODUCT CUSTOMER DRAWING
DOCUMENT NUMBER: SD-33471-031
PSD: 001

MATERIAL NUMBER
CUSTOMER
SHEET NUMBER
SEE BOM
GENERAL MARKET
BACKSHELL
THE VIEWS ON THIS SHEET ARE
IN THE CLOSED UN-ASSEMBLED POSITION

SECTION W-W

11.00
10.70
6.40
6.60

11.00
10.70
6.40
6.60
RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL
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**FOR ASSEMBLY P/N 3471-0340 AND 3471-0342 REFER TO SALEABLE KEY OPTION C ASSEMBLY P/N'S ABOVE**

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**FOR ASSEMBLY P/N 3471-3340 AND 3471-3342 REFER TO SALEABLE KEY OPTION C ASSEMBLY P/N'S ABOVE**
NOTES: VALID UNLESS OTHERWISE SPECIFIED
1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-33472-100
      - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
      - DESIGNED TO MATE WITH RECEPACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-031.
      - FOR 1.5mm BLADE TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33000-001.
      - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
      - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION
      - IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT www.molex.com <http://www.molex.com>
      - ASSEMBLY CONFORMS TO SAE/USCAR-2 REV.4 WITH THE FOLLOWING EXCEPTIONS:
        TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm NOT EXCEEDING 2.69mm SHALL NOT EXCEED 45 NEWTONS.
   b. PRODUCT SPECIFICATION SEE: PS-33471-000
      - CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
      - PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-13100-625
      - PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
      - DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#12355)
2. DESIGN - MATERIALS:
   a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/ NYLON BLEND 20% GLASS FILLED
   b. MAT SEAL: INHERENTLY LUBRICATED SILICONE
3. DESIGN - GEOMETRY:
   a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
   b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
   c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
   d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
   e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD.
      - THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION,
      - AND CUSTOMER MATERIAL NUMBER
   f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
   g. LASER MARKING: TBD

INSPECTION NUMBER LOG
LAST NUMBER USED: 21
ADDED: R5
REMOVED: R4

REV DESCRIPTION
R5 ADDED STATUS COLUMN
R4 ADD PINS 33481-3301 TO 33481-3341
R3 DEVATED THE DIM 16
R2 RELEASED PIN 33481-0341
R1 RELEASED PIN 33481-0340, DELETED PIN 33481-0331
R ADD RUBBER BOOT CONFIGURATION
Q UPDATE PIN 33481-0326 TO 33481-0330
P ADD NEW PIN 33481-0326
N UPDATED GROMMET CAP
M3 UPDATED DIMENSIONS TO MATCH MODEL
M2 COLOR REPLACEMENT FOR KEY C AND D PER USCAR STANDARD
M1 UPDATED NOTES
M REDRAWN
LASER MARKING THIS SURFACE
SEE NOTE 3g.

PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION
SECTION Z-Z

PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION
SECTION Y-Y

SECTION C-C

CHARTED DIMENSIONS

CONFIGURATION
A
MX150 1X3 BLADE SEALED ASSEMBLY - STANDARD
53.85
MX150 1X3 BLADE SEALED ASSEMBLY - RIBBER BOOT CONFIGURATION
57.85

NOTE 3g.

NOTE 3g.

NOTE 3g.
OVERALL MATED SYSTEM WITH BLADE RUBBER BOOT AND RECEPTACLE BACKSHELL

OVERALL MATED SYSTEM WITH BLADE RUBBER BOOT

OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL

BLADE SEALED ASSEMBLY WITH BLADE RUBBER BOOT

CHARTED DIMENSIONS

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DIMENSION UNITS

SCALE: 2:1

GENERAL TOLERANCES

(UNLESS SPECIFIED)

4 PLACES ± ± ±
3 PLACES ± ± ±
2 PLACES ± ± ±
1 PLACE ± ± ±
0 PLACES ± ± ±

ANGULAR TOL ± 3.0 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FORMAT: Eng-lega-master-tb-prod-D

REVISION: E

DATE: 2020/01/14

DOCUMENT STATUS P1

RELEASE DATE 2020/09/21 14:03:57

DIMENSIONS [mm]

⌀29.00
⌀25.40
⌀23.45

MIN PASS-THRU WITH NO CLEARANCE

MIN PASS-THRU WITH NO CLEARANCE

MIN PASS-THRU WITH NO CLEARANCE

MIN PASS-THRU WITH NO CLEARANCE

⌀147.89
⌀113.64
⌀94.78

B
A
B
C
D
E
F
G
H
J
K
L
M

1
2
3
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18
19
20

OVERALL MATED SYSTEM WITH BLADE RUBBER BOOT AND RECEPTACLE BACKSHELL

RUBBER BOOT CONFIGURATION

OVERALL MATED SYSTEM WITH BLADE RUBBER BOOT

BLADE SEALED ASSEMBLY WITH BLADE RUBBER BOOT

OVERALL MATED SYSTEM WITH RECEPTACLE BACKSHELL

RUBBER BOOT CONFIGURATION

OVERALL MATED SYSTEM WITH BLADE RUBBER BOOT

BLADE SEALED ASSEMBLY WITH BLADE RUBBER BOOT
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**NOTES:**
- THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.
- GENERAL TOLERANCES:
  - DIMENSION UNITS: 0 PLACES
  - DIMENSION UNITS: 2 PLACES
  - DIMENSION UNITS: 4 PLACES

**PRODUCT CUSTOMER DRAWING:**
- SD-33481-0341
- MX151 1X5 BLADE
- SEALED ASSEMBLY MAT SEAL
- MPS
- MX151 1X3 BLADE
- SD-33481-0331
- SMRUBBER BOOT

**GENERAL MARKET:**
- DRAWING

**DATE:** 2020/01/14
**RELEASE DATE:** 2020/09/21
**SCALE:** 1:1
**REVISION:** E

**DOCUMENT NUMBER:** 33481
**EC NO:** 64317
**INITIAL REVISION:** 2020/09/10
**APP'D:** 2020/09/10
**CHECKED:** 2020/09/10
**DRAWN:** DMARCOUX
**PRINTED:** 2020/09/10
**APPROVED:** 2020/09/10
**DESCRIPTION:** BOM
**PART NUMBER:** 33481-0313
**PHOTO:** Y

**BOM:**
- ASSEMBLY PART NUMBER
- COLOR
- KEYING OPTION
- CAVITY TYPE & STATUS (X = PLUGGED)
- COMMENTS
- OPTIONAL ATTACHMENT SOLD SEPARATELY SMP RUBBER BOOT
- STATUS
