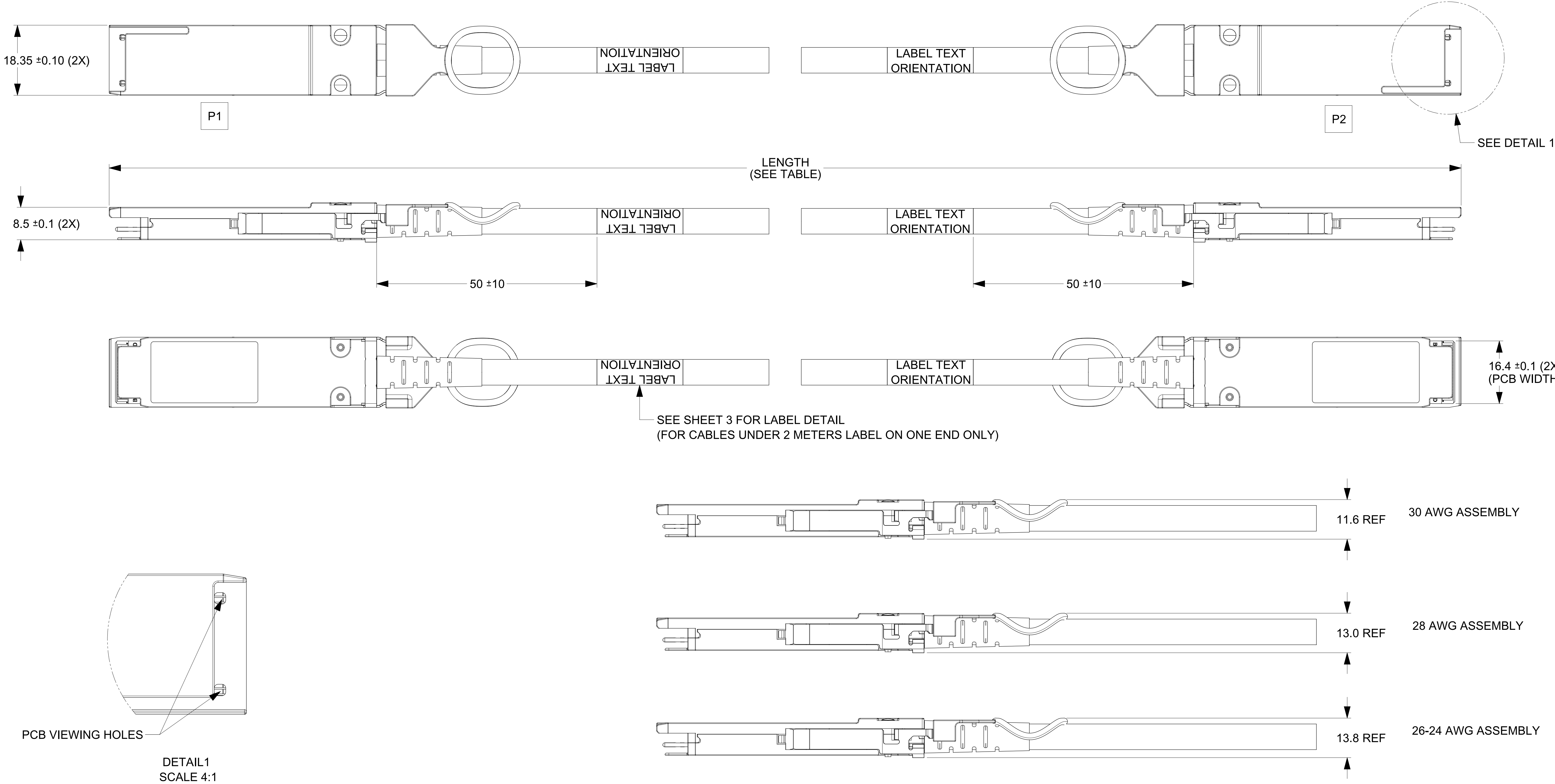




SEE SHEET 3 FOR LABEL DETAIL  
(FOR CABLES UNDER 2 METERS LABEL ON ONE END ONLY)

SEE SHEET 3 FOR P/N TABLE

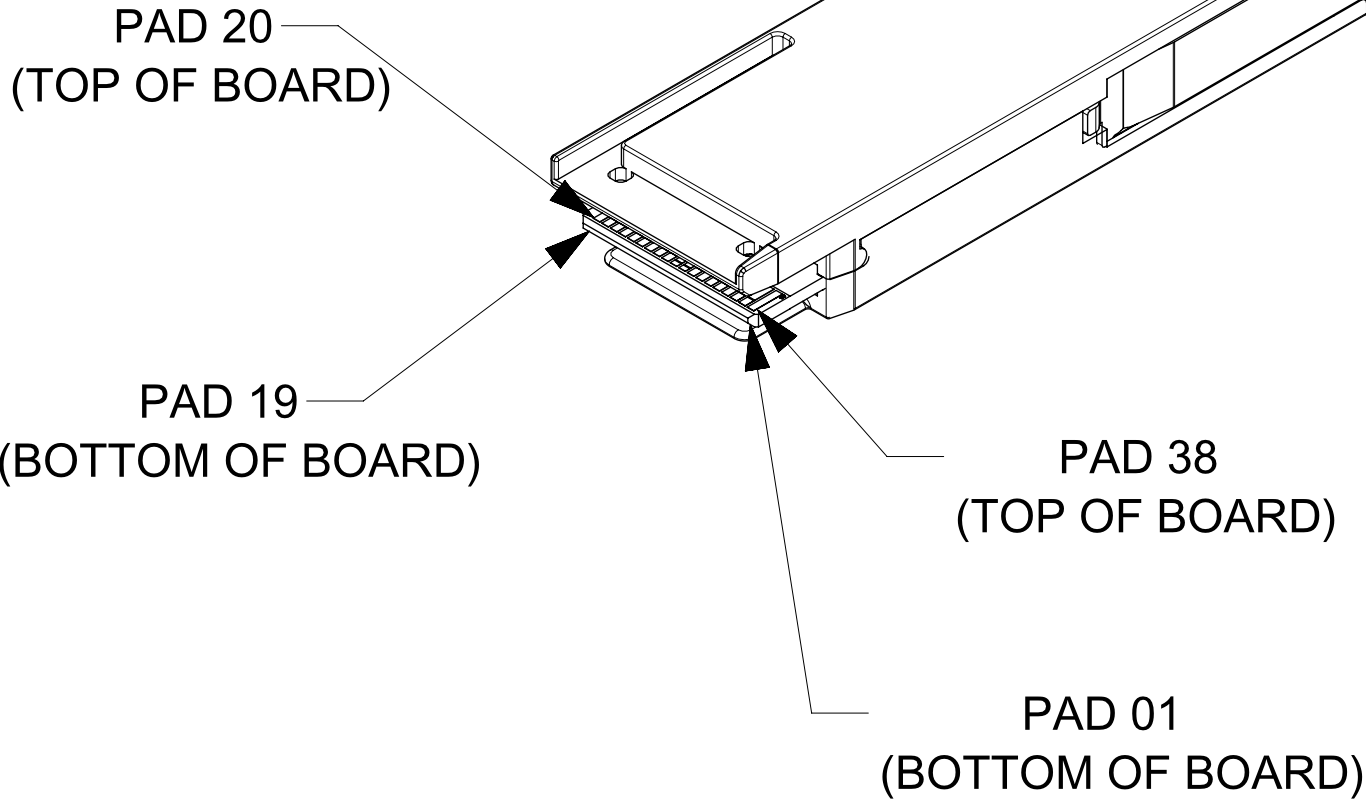
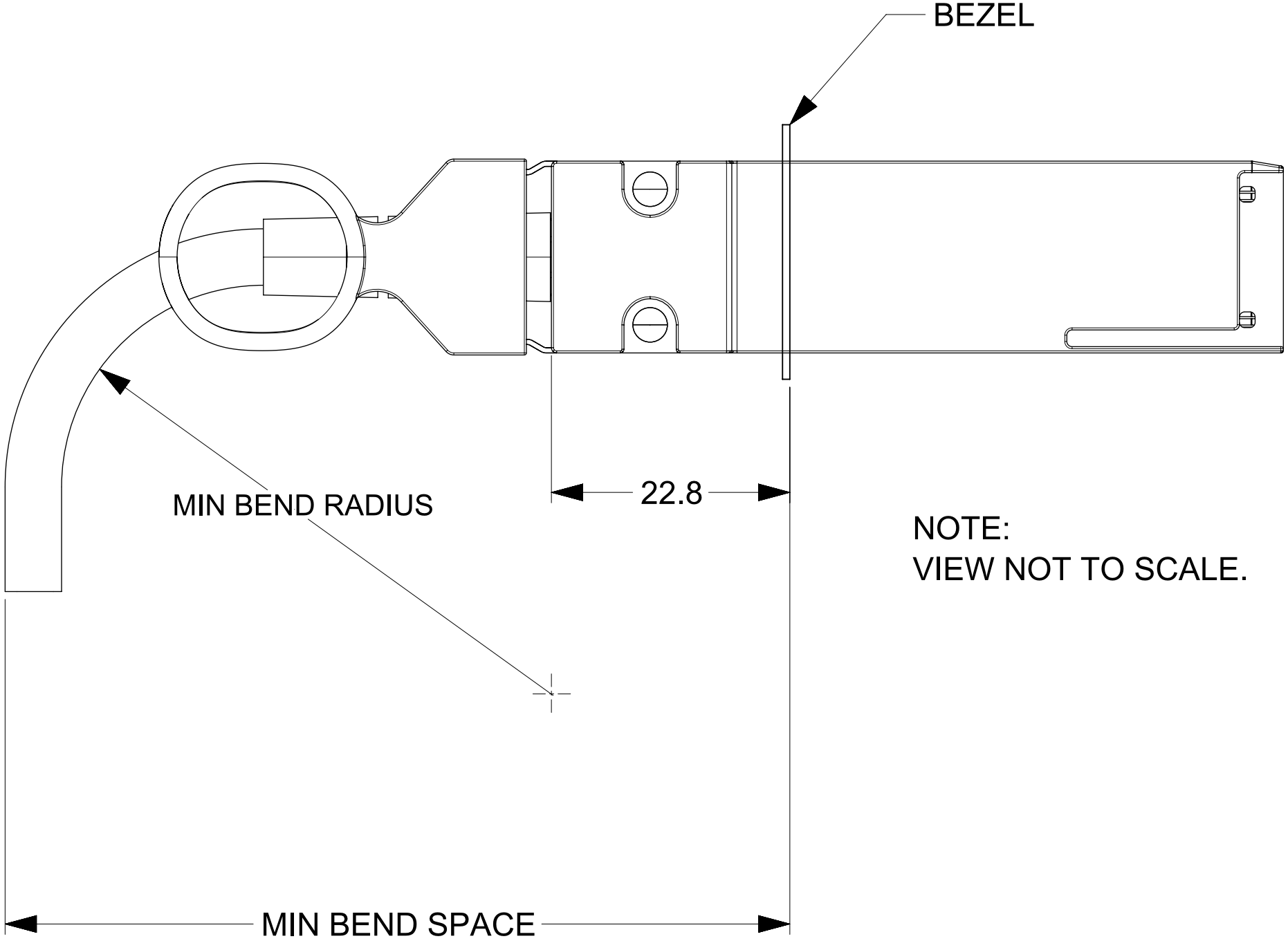
- NOTES:
- CABLE DISTANCE DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
  - MATERIALS:
    - BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
    - DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
    - PCB - FR4
    - RIVETS - STAINLESS STEEL
  - IMPEDANCE - 100 OHMS DIFFERENTIAL
  - RoHS COMPLIANT, NO EXEMPTIONS

|                                                                                                                                               |  |         |                                                                                                                                       |         |        |                 |                |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|---------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------------|----------------|--------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |         |                                                                                                                                       |         |        |                 |                |              |  |
| DIMENSION UNITS                                                                                                                               |  | SCALE   | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514995.                                                                    |         |        |                 |                |              |  |
| MM                                                                                                                                            |  | 2:1     |                                                                                                                                       |         |        |                 |                |              |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |         | STATUS: Production<br>DRWN: Ravindra Reddy MS<br>CHK'D: Ganesh Rao B<br>APPR: Gurunandan GA<br>2025-04-21<br>2025-05-23<br>2025-05-26 |         |        |                 |                |              |  |
| ANGULAR TOL                                                                                                                                   |  | ± 0.5°  |                                                                                                                                       |         |        |                 |                |              |  |
| 4 PLACES                                                                                                                                      |  | ±       |                                                                                                                                       |         |        |                 |                |              |  |
| 3 PLACES                                                                                                                                      |  | ±       |                                                                                                                                       |         |        |                 |                |              |  |
| 2 PLACES                                                                                                                                      |  | ± 0.130 |                                                                                                                                       |         |        |                 |                |              |  |
| 1 PLACE                                                                                                                                       |  | ± 0.25  |                                                                                                                                       |         |        |                 |                |              |  |
| 0 PLACES                                                                                                                                      |  | ±       |                                                                                                                                       |         |        |                 |                |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  |         | THIRD ANGLE PROJECTION                                                                                                                | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER       | SHEET NUMBER |  |
|                                                                                                                                               |  |         |                                                                                                                                       | D-SIZE  | 111040 | SEE P/N TABLE   | GENERAL MARKET | 1 OF 3       |  |

|                                                     |  |  |  |  |  |  |          |          |          |
|-----------------------------------------------------|--|--|--|--|--|--|----------|----------|----------|
| <b>molex</b>                                        |  |  |  |  |  |  |          |          |          |
| QSFP+ COPPER PATCH CABLE ASSEMBLY<br>CABLE ASSEMBLY |  |  |  |  |  |  |          |          |          |
| PRODUCT CUSTOMER DRAWING                            |  |  |  |  |  |  |          |          |          |
| DOCUMENT NUMBER                                     |  |  |  |  |  |  | DOC TYPE | DOC PART | REVISION |
| 1110400001                                          |  |  |  |  |  |  | PSD      | 000      | AA2      |

| WIRING DIAGRAM |          |                                                                                                                                         |                                                                                                                           |     |          |
|----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|----------|
| P1 END         |          |                                                                                                                                         | P2 END                                                                                                                    |     |          |
| PAD            | SIGNAL   |                                                                                                                                         |                                                                                                                           | PAD | SIGNAL   |
| 01             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 20  | GND (RX) |
| 02             | TX2n     | --->                                                                                                                                    |                                                                                                                           | 21  | RX2n     |
| 03             | TX2p     | --->                                                                                                                                    |                                                                                                                           | 22  | RX2p     |
| 04             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 23  | GND (RX) |
| 05             | TX4n     | --->                                                                                                                                    |                                                                                                                           | 24  | RX4n     |
| 06             | TX4p     | --->                                                                                                                                    |                                                                                                                           | 25  | RX4p     |
| 07             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 26  | GND (RX) |
| 08             | ModSelL  | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> <div>NC</div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 27  | ModPrsL  |
| 09             | ResetL   |                                                                                                                                         |                                                                                                                           | 28  | IntL     |
| 10             | VccRx    |                                                                                                                                         |                                                                                                                           | 29  | VccTx    |
| 11             | SCL      |                                                                                                                                         |                                                                                                                           | 30  | Vcc1     |
| 12             | SDA      |                                                                                                                                         |                                                                                                                           | 31  | LPmode   |
| 13             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 32  | GND (TX) |
| 14             | RX3p     | <----                                                                                                                                   |                                                                                                                           | 33  | TX3p     |
| 15             | RX3n     | <----                                                                                                                                   |                                                                                                                           | 34  | TX3n     |
| 16             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 35  | GND (TX) |
| 17             | RX1p     | <----                                                                                                                                   |                                                                                                                           | 36  | TX1p     |
| 18             | RX1n     | <----                                                                                                                                   |                                                                                                                           | 37  | TX1n     |
| 19             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 38  | GND (TX) |
| 20             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 01  | GND (TX) |
| 21             | RX2n     | <----                                                                                                                                   |                                                                                                                           | 02  | TX2n     |
| 22             | RX2p     | <----                                                                                                                                   |                                                                                                                           | 03  | TX2p     |
| 23             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 04  | GND (TX) |
| 24             | RX4n     | <----                                                                                                                                   |                                                                                                                           | 05  | TX4n     |
| 25             | RX4p     | <----                                                                                                                                   |                                                                                                                           | 06  | TX4p     |
| 26             | GND (RX) | ----                                                                                                                                    |                                                                                                                           | 07  | GND (TX) |
| 27             | ModPrsL  | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> <div>NC</div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 08  | ModSelL  |
| 28             | IntL     |                                                                                                                                         |                                                                                                                           | 09  | ResetL   |
| 29             | VccTx    |                                                                                                                                         |                                                                                                                           | 10  | VccRx    |
| 30             | Vcc1     |                                                                                                                                         |                                                                                                                           | 11  | SCL      |
| 31             | LPMode   |                                                                                                                                         |                                                                                                                           | 12  | SDA      |
| 32             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 13  | GND (RX) |
| 33             | TX3p     | --->                                                                                                                                    |                                                                                                                           | 14  | RX3p     |
| 34             | TX3n     | --->                                                                                                                                    |                                                                                                                           | 15  | RX3n     |
| 35             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 16  | GND (RX) |
| 36             | TX1p     | --->                                                                                                                                    |                                                                                                                           | 17  | RX1p     |
| 37             | TX1n     | --->                                                                                                                                    |                                                                                                                           | 18  | RX1n     |
| 38             | GND (TX) | ----                                                                                                                                    |                                                                                                                           | 19  | GND (RX) |

LEGEND:  
---- = THRU LINES  
----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS  
C = COMMON GROUND CONNECTION  
NC = NOT CONNECTED  
□ = CONNECTION TO A DEVICE ON THE PCB



CABLE BEND RADIUS

| CABLE AWG | MIN BEND RADIUS (mm) | MIN BEND SPACE (mm) |
|-----------|----------------------|---------------------|
| 24        | 51                   | 84                  |
| 26        | 44                   | 76                  |
| 28        | 39                   | 70                  |
| 30        | 33                   | 62                  |

- NOTES:
- DC BLOCKING CAPS ON RECEIVE SIDE ONLY
  - CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

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|                                                      |         |
|------------------------------------------------------|---------|
| DIMENSION UNITS                                      | SCALE   |
| MM                                                   | 2:1     |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |         |
| ANGULAR TOL                                          | ± 0.5°  |
| 4 PLACES                                             | ±       |
| 3 PLACES                                             | ±       |
| 2 PLACES                                             | ± 0.130 |
| 1 PLACE                                              | ± 0.25  |
| 0 PLACES                                             | ±       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |         |

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514995.

STATUS: Production

DRWN: Ravindra Reddy MS

CHK'D: Ganesh Rao B

APPR: Gurunandan GA

2025-04-21

2025-05-23

2025-05-26

THIRD ANGLE PROJECTION

DRAWING

D-SIZE

SERIES

111040

MATERIAL NUMBER

SEE P/N TABLE

CUSTOMER

2 OF 3

SHEET NUMBER

DOCUMENT NUMBER

1110400001

DOC TYPE

PSD

DOC PART

000

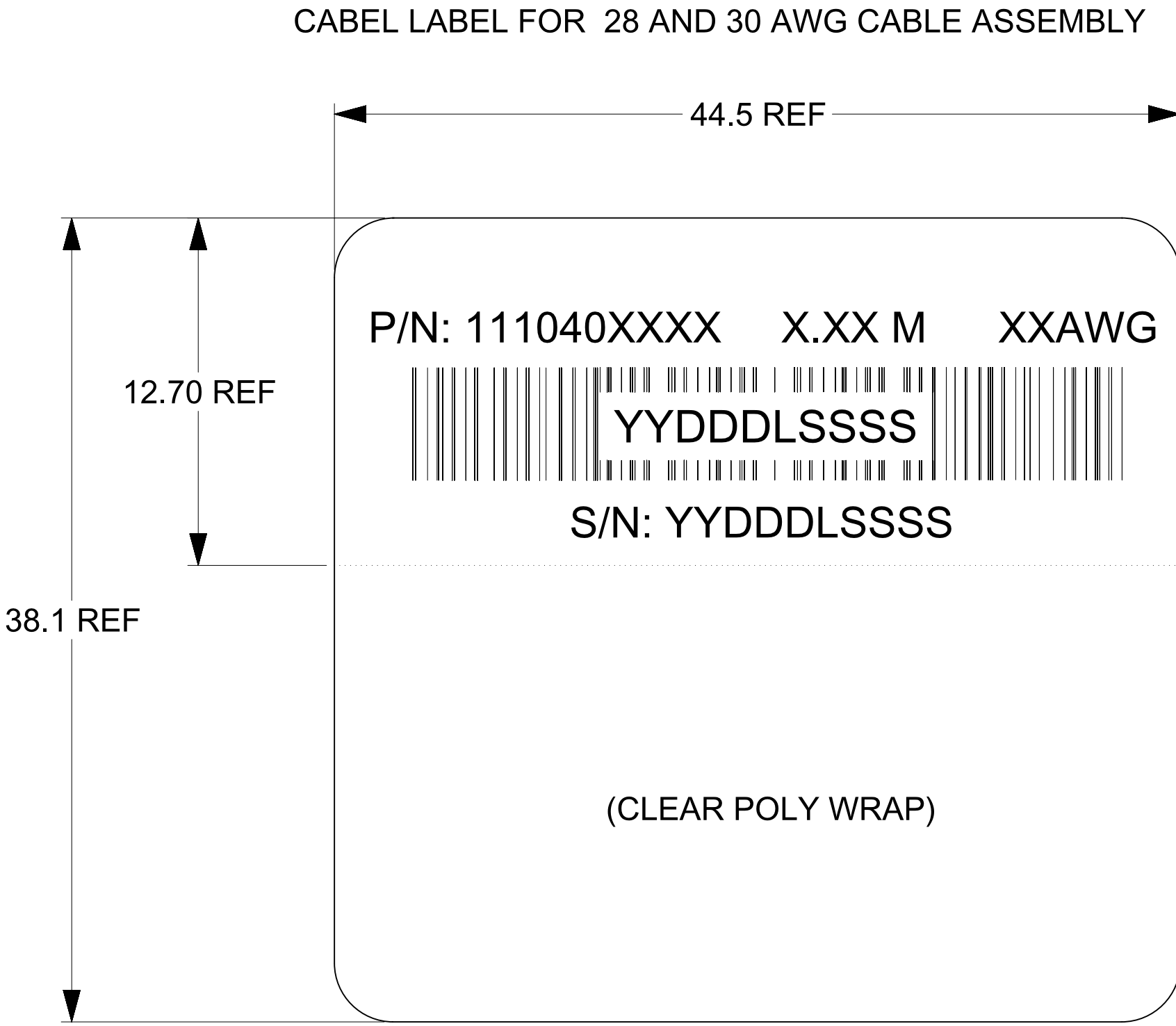
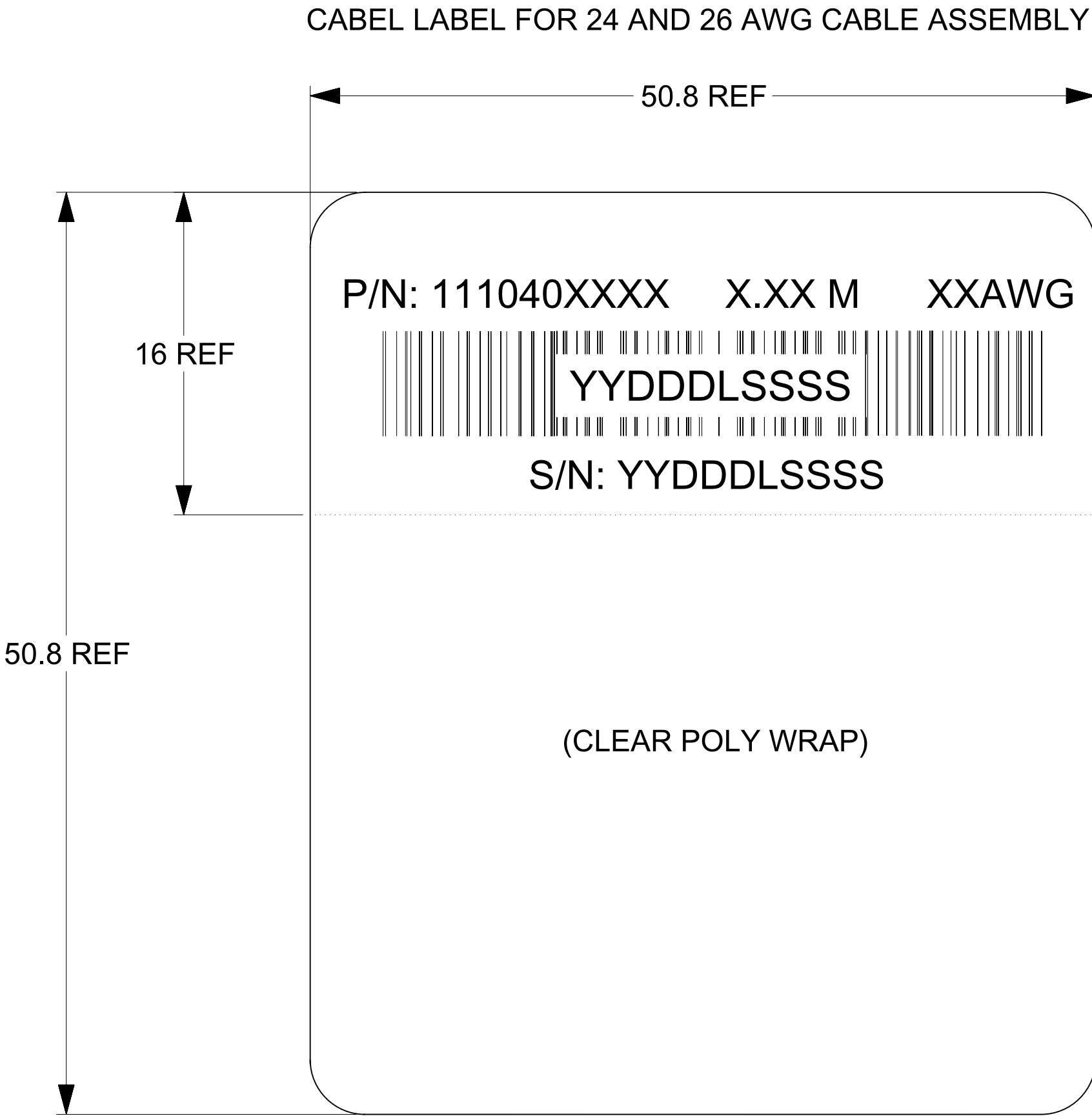
REVISION

AA2

PART NUMBER TABLE

| MOLEX PN   | LENGTH (M) | LENGTH TOLERANCE (mm) | AWG |
|------------|------------|-----------------------|-----|
| 1110401054 | 0.5        | ±30                   | 30  |
| 1110401104 | 1.0        | ±50                   | 30  |
| 1110401154 | 1.5        | ±50                   | 30  |
| 1110401204 | 2.0        | ±50                   | 30  |
| 1110401304 | 3.0        | ±50                   | 30  |
| 1110401504 | 5.0        | ±80                   | 30  |
| 1110402304 | 3.0        | ±50                   | 28  |
| 1110403304 | 3.0        | ±50                   | 26  |
| 1110403509 | 5.0        | ±80                   | 26  |
| 1110404708 | 7.0        | ±80                   | 24  |

CABLE LABEL DETAILS



P/N: 111040XXXX - MOLEX PART NUMBER (SEE P/N TABLE)

X.XX M - CABLE LENGTH IN METERS (EXAMPLES - 0.5M, 1.0M, 1.5M)

XXAWG - CABLE SIZE IN AWG

S/N: YYDDDLSSSS - SERIAL NUMBER  
YY = YEAR, THE LAST TWO DIGITS OF THE YEAR  
DDD = DAY OF THE YEAR  
L = LOCATION  
1 - USA  
2 - MEXICO  
3 - CHINA  
4 - PHILIPPINES  
SSSS = SERIAL NUMBER (0001-9999)

|                                                                                                                                               |  |         |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|------------------------------------------------------------------------------------------------------------------------------|--|---------|--|--------|----------------------------------------------------------------------------------|-----------------|----------|----------------|----------|--------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |         |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| DIMENSION UNITS                                                                                                                               |  | SCALE   |  | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514995.                                                           |  |         |  |        | <div>molex</div> <div>QSFP+ COPPER PATCH CABLE ASSEMBLY<br/>CABLE ASSEMBLY</div> |                 |          |                |          |              |  |
| MM                                                                                                                                            |  | 2:1     |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |         |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| ANGULAR TOL ± 0.5°                                                                                                                            |  |         |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| 4 PLACES                                                                                                                                      |  | ±       |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| 3 PLACES                                                                                                                                      |  | ±       |  | STATUS: Production<br>DRWN: Ravindra Reddy MS 2025-04-21<br>CHK'D: Ganesh Rao B 2025-05-23<br>APPR: Gurunandan GA 2025-05-26 |  |         |  |        | PRODUCT CUSTOMER DRAWING                                                         |                 |          |                |          |              |  |
| 2 PLACES                                                                                                                                      |  | ± 0.130 |  |                                                                                                                              |  |         |  |        | DOCUMENT NUMBER                                                                  |                 | DOC TYPE |                | DOC PART | REVISION     |  |
| 1 PLACE                                                                                                                                       |  | ± 0.25  |  |                                                                                                                              |  |         |  |        | 1110400001                                                                       |                 | PSD      |                | 000      | AA2          |  |
| 0 PLACES                                                                                                                                      |  | ±       |  |                                                                                                                              |  |         |  |        |                                                                                  |                 |          |                |          |              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS                                                                                       |  |         |  | THIRD ANGLE PROJECTION                                                                                                       |  | DRAWING |  | SERIES |                                                                                  | MATERIAL NUMBER |          | CUSTOMER       |          | SHEET NUMBER |  |
|                                                                                                                                               |  |         |  |                                                                                                                              |  | D-SIZE  |  | 111040 |                                                                                  | SEE P/N TABLE   |          | GENERAL MARKET |          | 3 OF 3       |  |