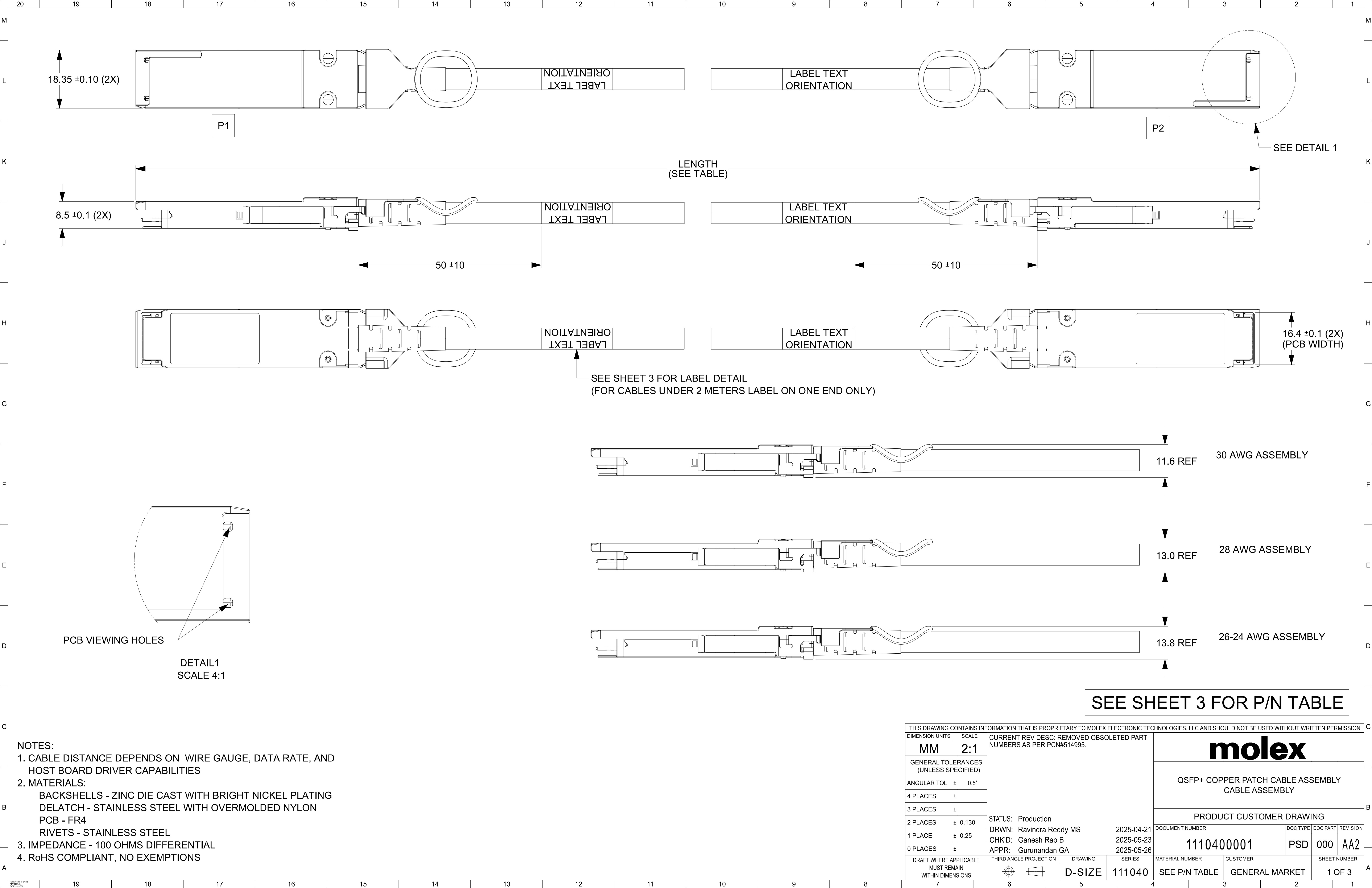
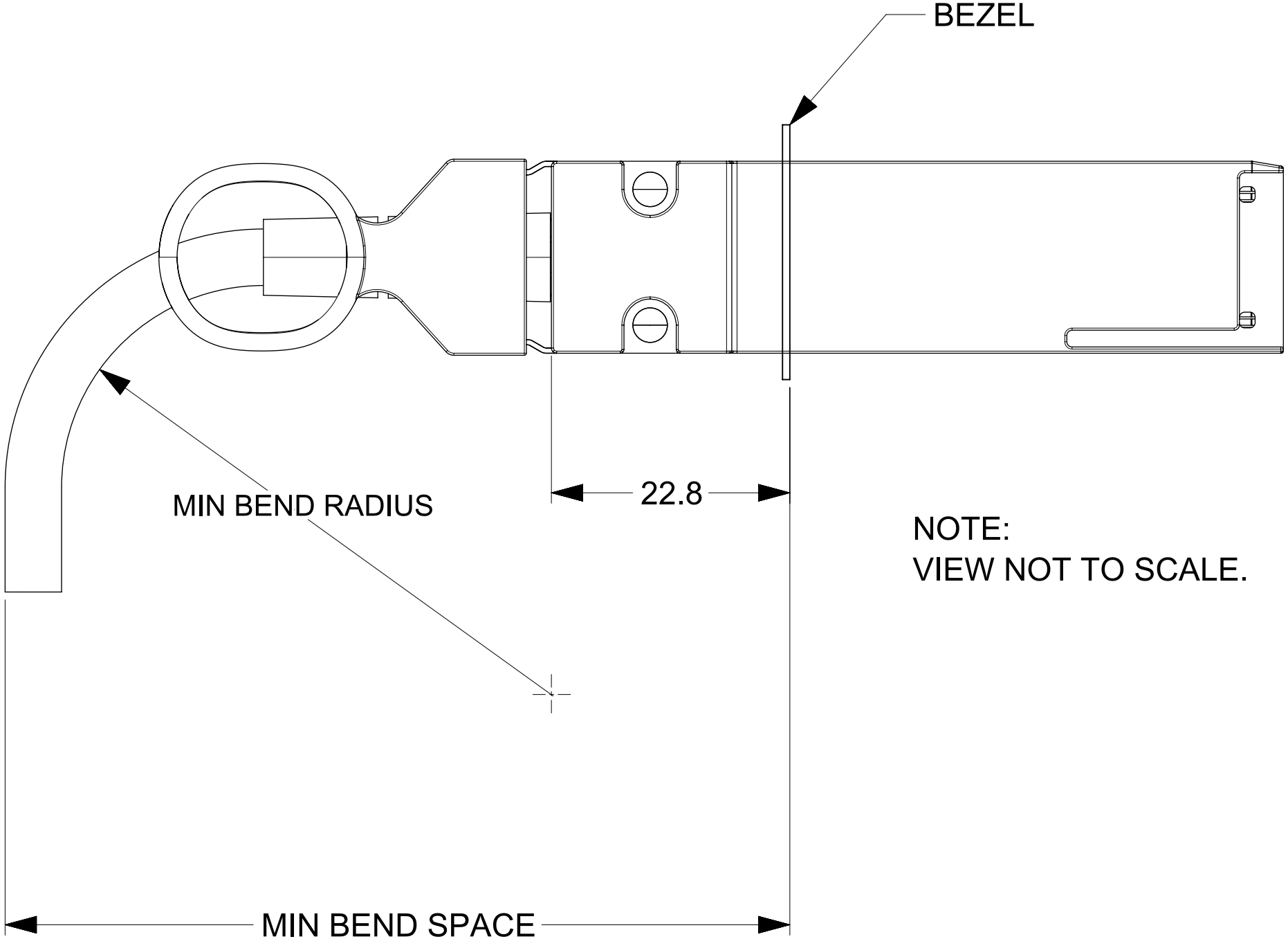




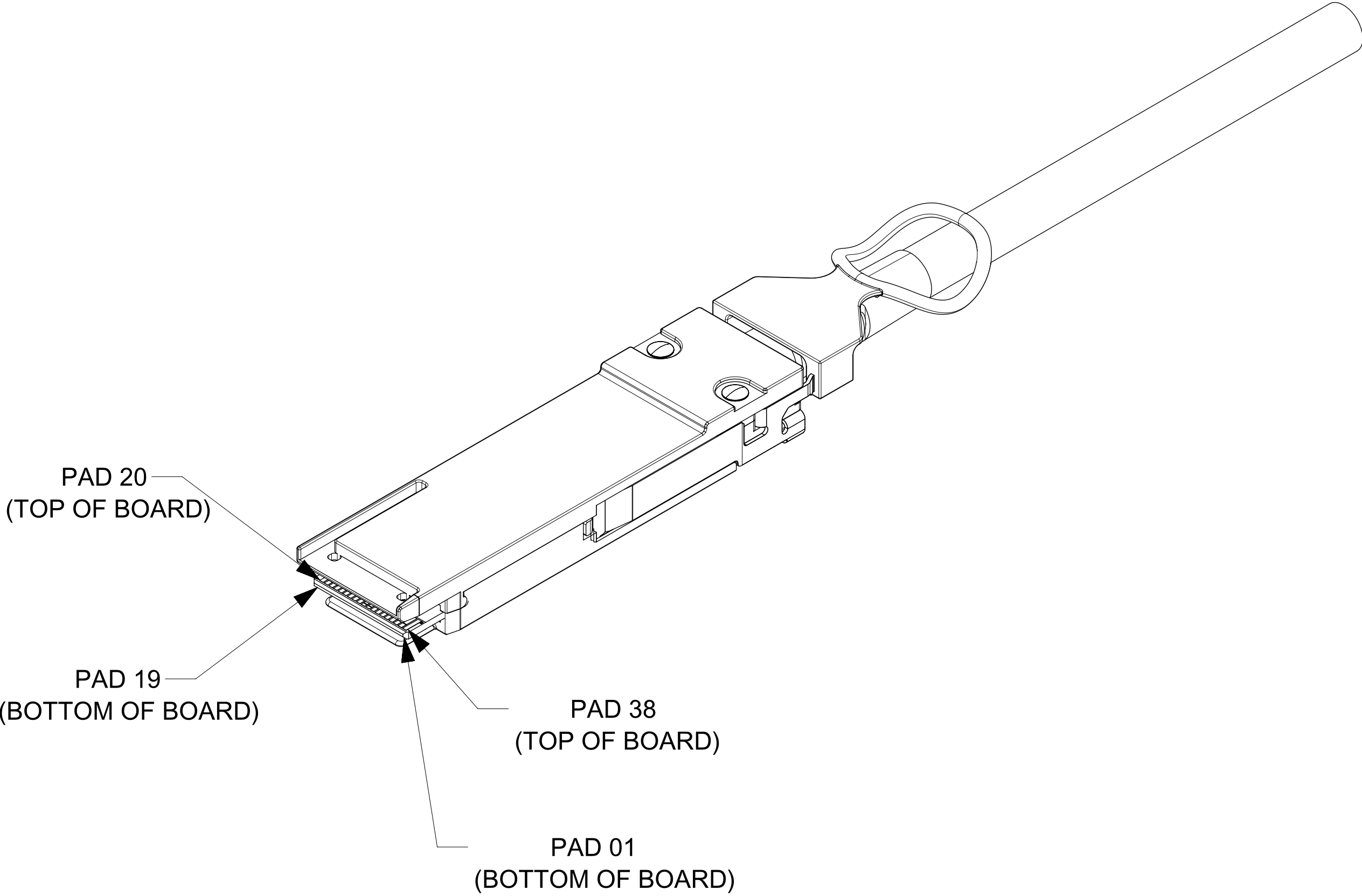
|                                                                                                                                               |   |                        |                                                                                             |        |               |  |          |                |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|---------------------------------------------------------------------------------------------|--------|---------------|--|----------|----------------|-----|
| 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)                                                                                                         |   |                        |                                                                                             |        |               |  |          |                |     |
| ANGULAR TOL                                                                                                                                   | ± | 0.5°                   |                                                                                             |        |               |  |          |                |     |
| 4 PLACES                                                                                                                                      | ± |                        |                                                                                             |        |               |  |          |                |     |
| 3 PLACES                                                                                                                                      | ± |                        |                                                                                             |        |               |  |          |                |     |
| 2 PLACES                                                                                                                                      | ± | 0.130                  | STATUS: Production<br>DRWN: Ravindra Reddy MS<br>CHK'D: Ganesh Rao B<br>APPR: Gurunandan GA |        |               |  |          |                |     |
| 1 PLACE                                                                                                                                       | ± | 0.25                   |                                                                                             |        |               |  |          |                |     |
| 0 PLACES                                                                                                                                      | ± |                        |                                                                                             |        |               |  |          |                |     |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |   | THIRD ANGLE PROJECTION | DRAWING                                                                                     | SERIES | 1110400001    |  |          |                |     |
|                                                                                                                                               |   |                        | D-SIZE                                                                                      | 111040 |               |  |          |                |     |
|                                                                                                                                               |   |                        |                                                                                             | 111040 | SEE P/N TABLE |  | CUSTOMER | GENERAL MARKET |     |
|                                                                                                                                               |   |                        |                                                                                             | 111040 | 1110400001    |  | PSD      | 000            | AA2 |
|                                                                                                                                               |   |                        |                                                                                             | 111040 | 1110400001    |  | 1 OF 3   |                |     |

| 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><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   | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 28  | IntL     |
| 10             | VccRx    | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 29  | VccTx    |
| 11             | SCL      | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 30  | Vcc1     |
| 12             | SDA      | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 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><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     | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 09  | ResetL   |
| 29             | VccTx    | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 10  | VccRx    |
| 30             | Vcc1     | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 11  | SCL      |
| 31             | LPMode   | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | <div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div> | 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



NOTE:  
VIEW NOT TO SCALE.



### 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                  |

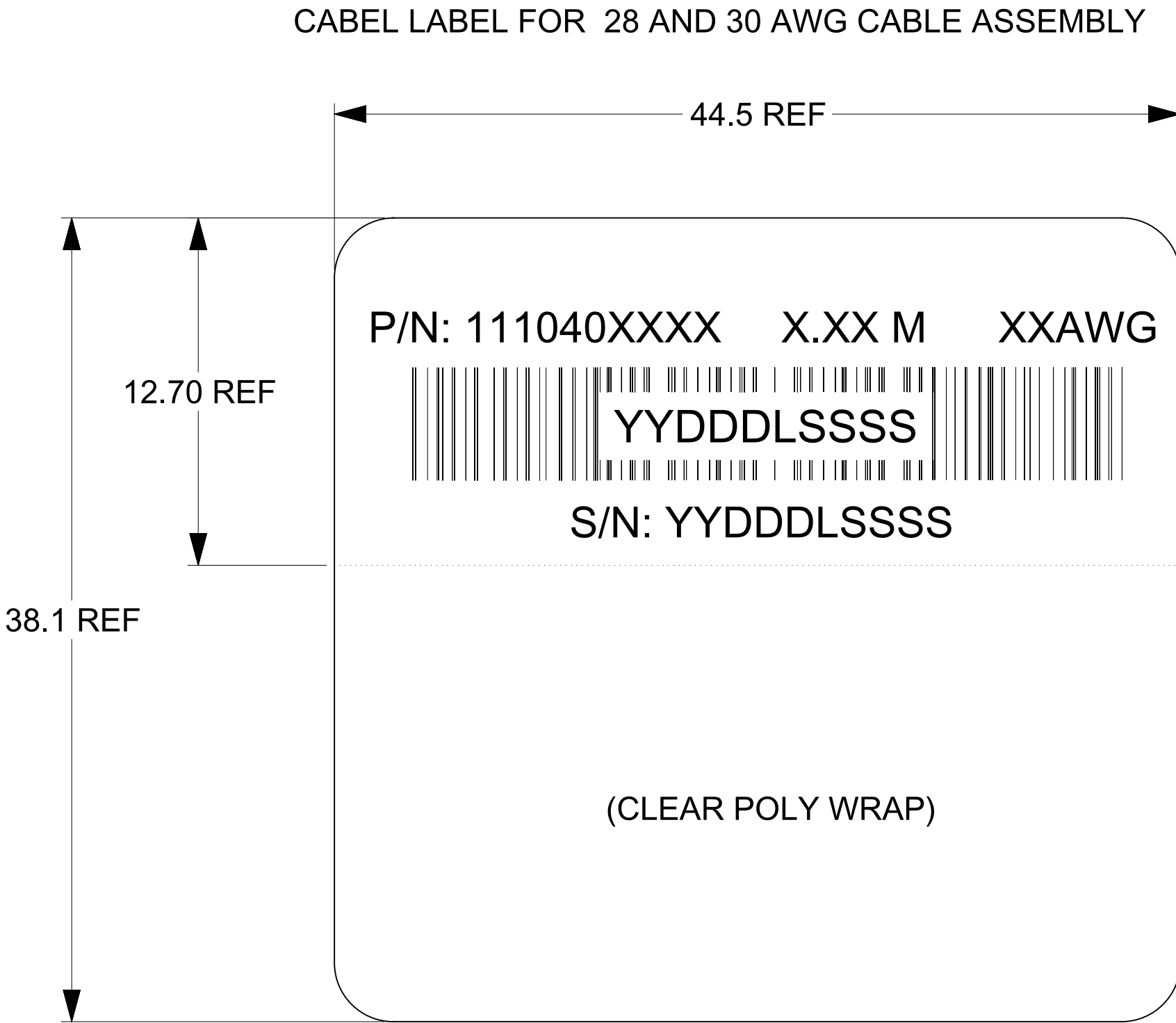
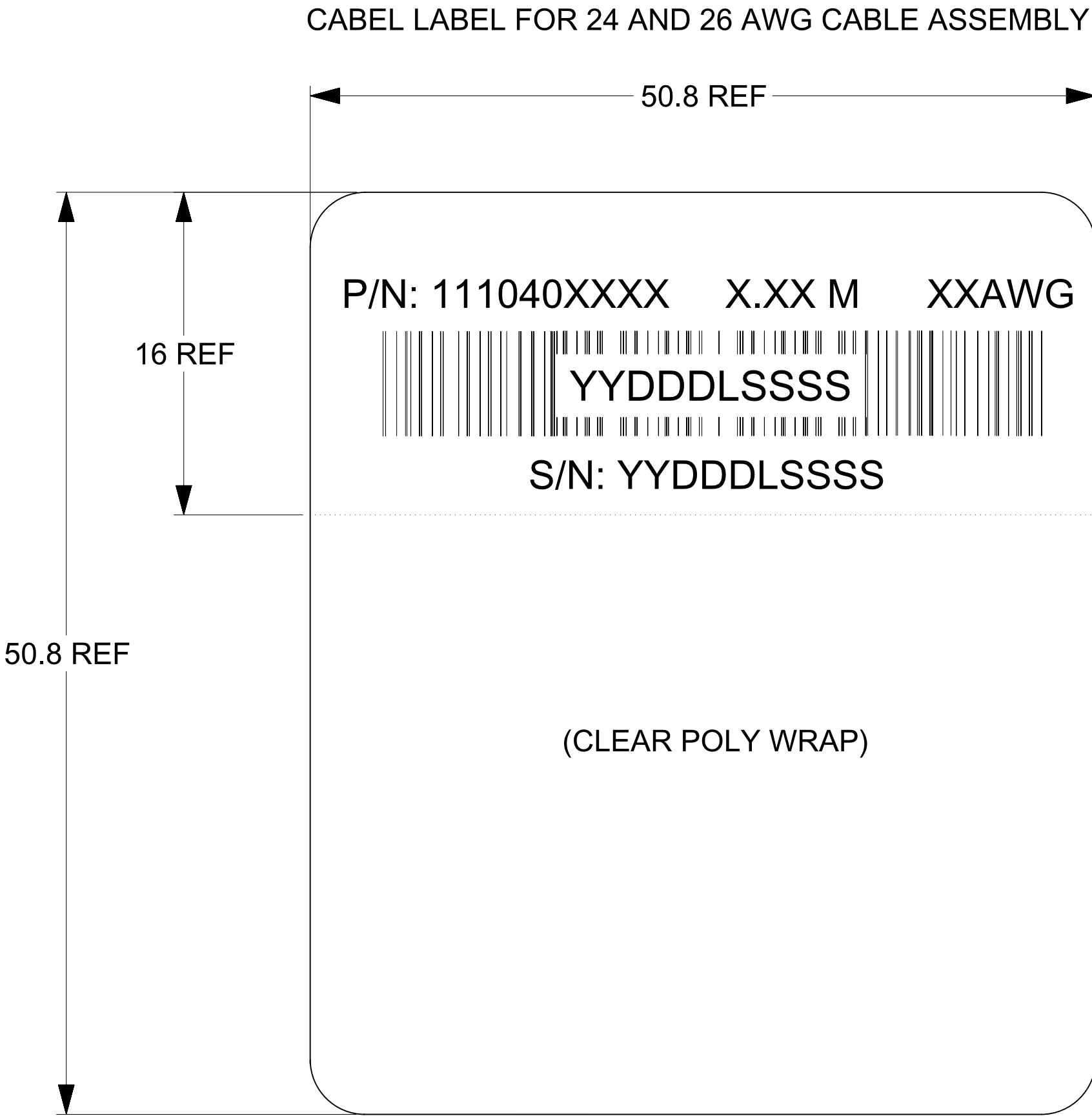
- NOTES:
- DC BLOCKING CAPS ON RECEIVE SIDE ONLY
  - CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

|                                                                                                                                               |  |         |  |                                                                                  |  |        |  |                        |  |                |  |        |                          |                 |  |          |          |              |          |  |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|----------------------------------------------------------------------------------|--|--------|--|------------------------|--|----------------|--|--------|--------------------------|-----------------|--|----------|----------|--------------|----------|--|----------|
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| DIMENSION UNITS                                                                                                                               |  | SCALE   |  | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514995.               |  |        |  |                        |  |                |  |        |                          |                 |  |          |          |              |          |  |          |
| 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                                                                                                                                      |  | ±       |  |                                                                                  |  |        |  |                        |  |                |  |        |                          |                 |  |          |          |              |          |  |          |
| 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                  |  |         |  | <div>molex</div> <div>QSFP+ COPPER PATCH CABLE ASSEMBLY<br/>CABLE ASSEMBLY</div> |  |        |  |                        |  |                |  |        |                          |                 |  |          |          |              |          |  |          |
|                                                                                                                                               |  |         |  |                                                                                  |  |        |  |                        |  |                |  |        | PRODUCT CUSTOMER DRAWING |                 |  |          |          |              |          |  |          |
|                                                                                                                                               |  |         |  |                                                                                  |  |        |  |                        |  |                |  |        | DOCUMENT NUMBER          |                 |  |          | DOC TYPE |              | DOC PART |  | REVISION |
|                                                                                                                                               |  |         |  | 1110400001                                                                       |  |        |  | PSD                    |  | 000            |  | AA2    |                          |                 |  |          |          |              |          |  |          |
|                                                                                                                                               |  |         |  | 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 |  | 2 OF 3 |                          |                 |  |          |          |              |          |  |          |

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)

|                                                                                                                                               |  |         |  |                                                                                                                                                                             |  |         |        |                                                     |  |                |  |              |          |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--------|-----------------------------------------------------|--|----------------|--|--------------|----------|----------|
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| DIMENSION UNITS                                                                                                                               |  | SCALE   |  | CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514995.                                                                                                          |  |         |        | <div>molex</div>                                    |  |                |  |              |          |          |
| MM                                                                                                                                            |  | 2:1     |  |                                                                                                                                                                             |  |         |        |                                                     |  |                |  |              |          |          |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |         |  |                                                                                                                                                                             |  |         |        | QSFP+ COPPER PATCH CABLE ASSEMBLY<br>CABLE ASSEMBLY |  |                |  |              |          |          |
| 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 |  |                                                                                                                                                                             |  |         |        |                                                     |  |                |  |              |          |          |
| 1 PLACE                                                                                                                                       |  | ± 0.25  |  |                                                                                                                                                                             |  |         |        | DOCUMENT NUMBER                                     |  |                |  | DOC TYPE     | DOC PART | REVISION |
| 0 PLACES                                                                                                                                      |  | ±       |  |                                                                                                                                                                             |  |         |        | 1110400001                                          |  |                |  | PSD          | 000      | AA2      |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |         |  | THIRD ANGLE PROJECTION                                                                                                                                                      |  | DRAWING | SERIES | MATERIAL NUMBER                                     |  | CUSTOMER       |  | SHEET NUMBER |          |          |
|                                                                                                                                               |  |         |  |   |  | D-SIZE  | 111040 | SEE P/N TABLE                                       |  | GENERAL MARKET |  | 3 OF 3       |          |          |