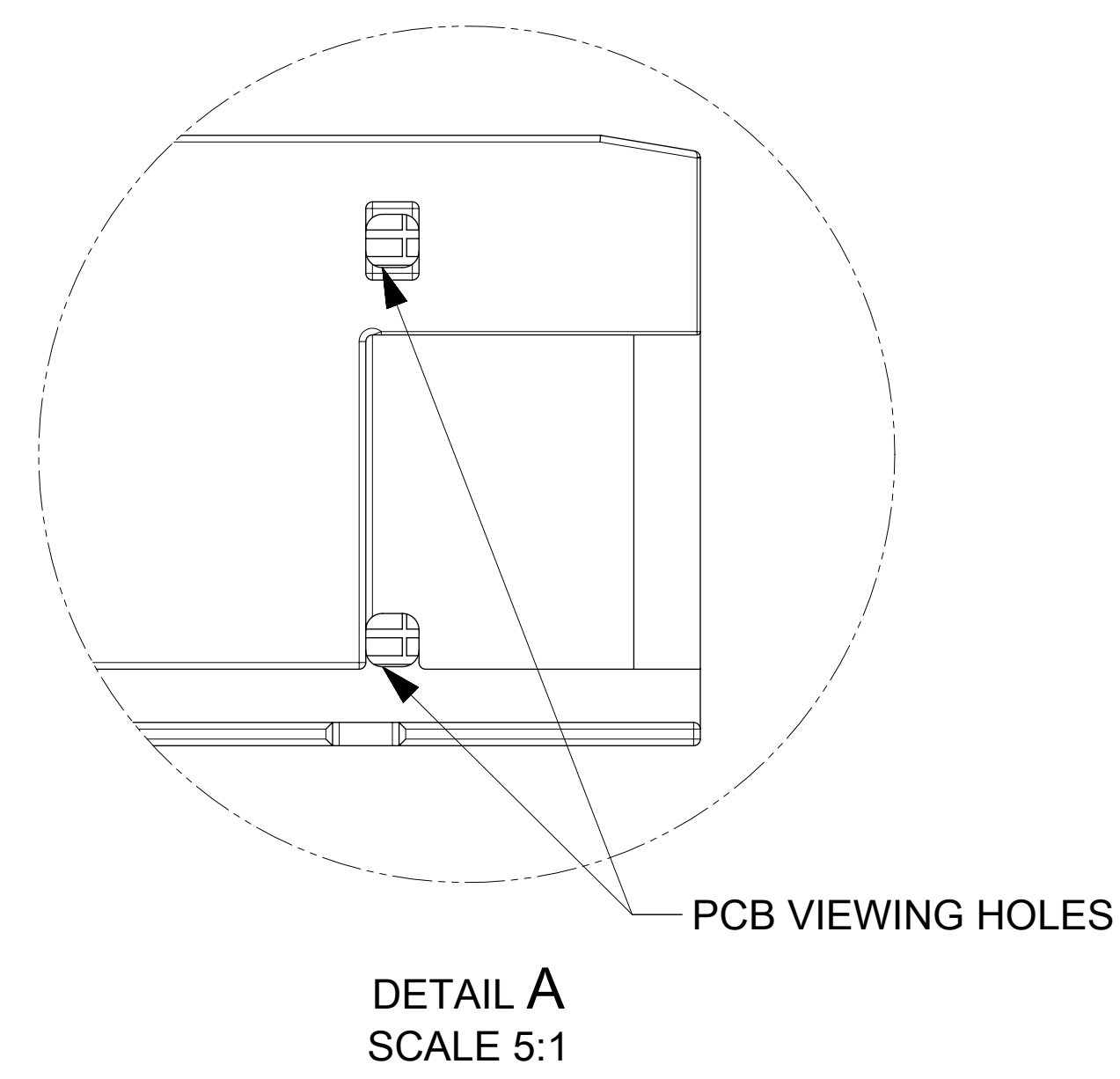
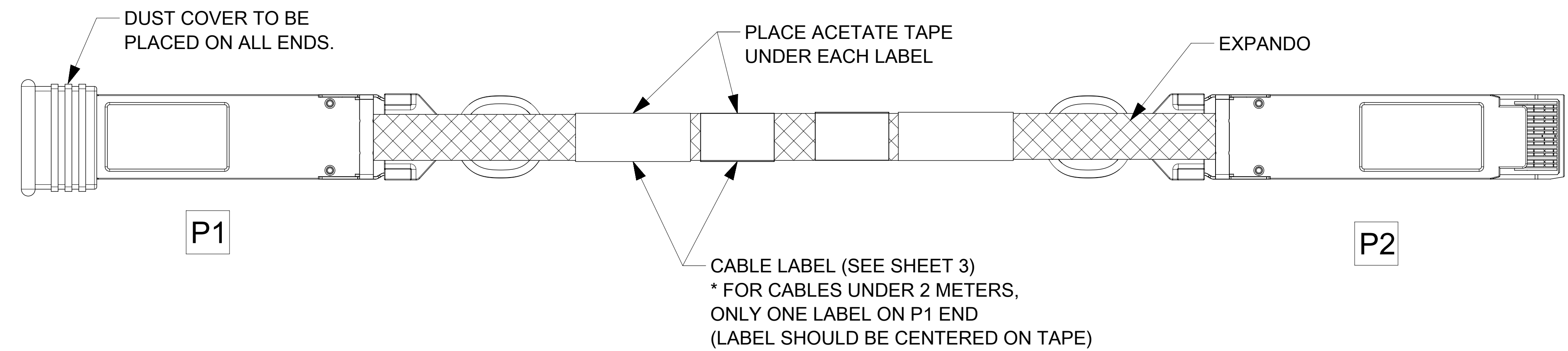
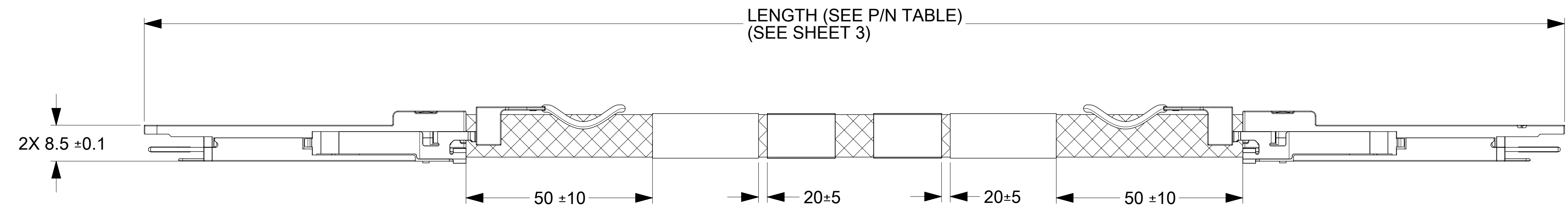
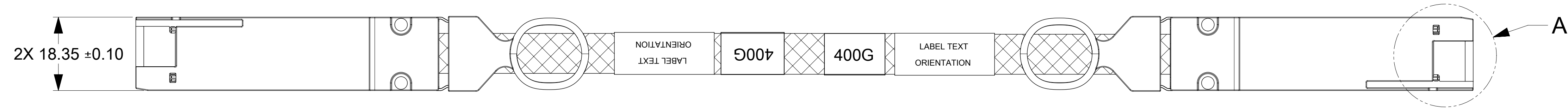
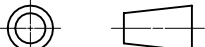
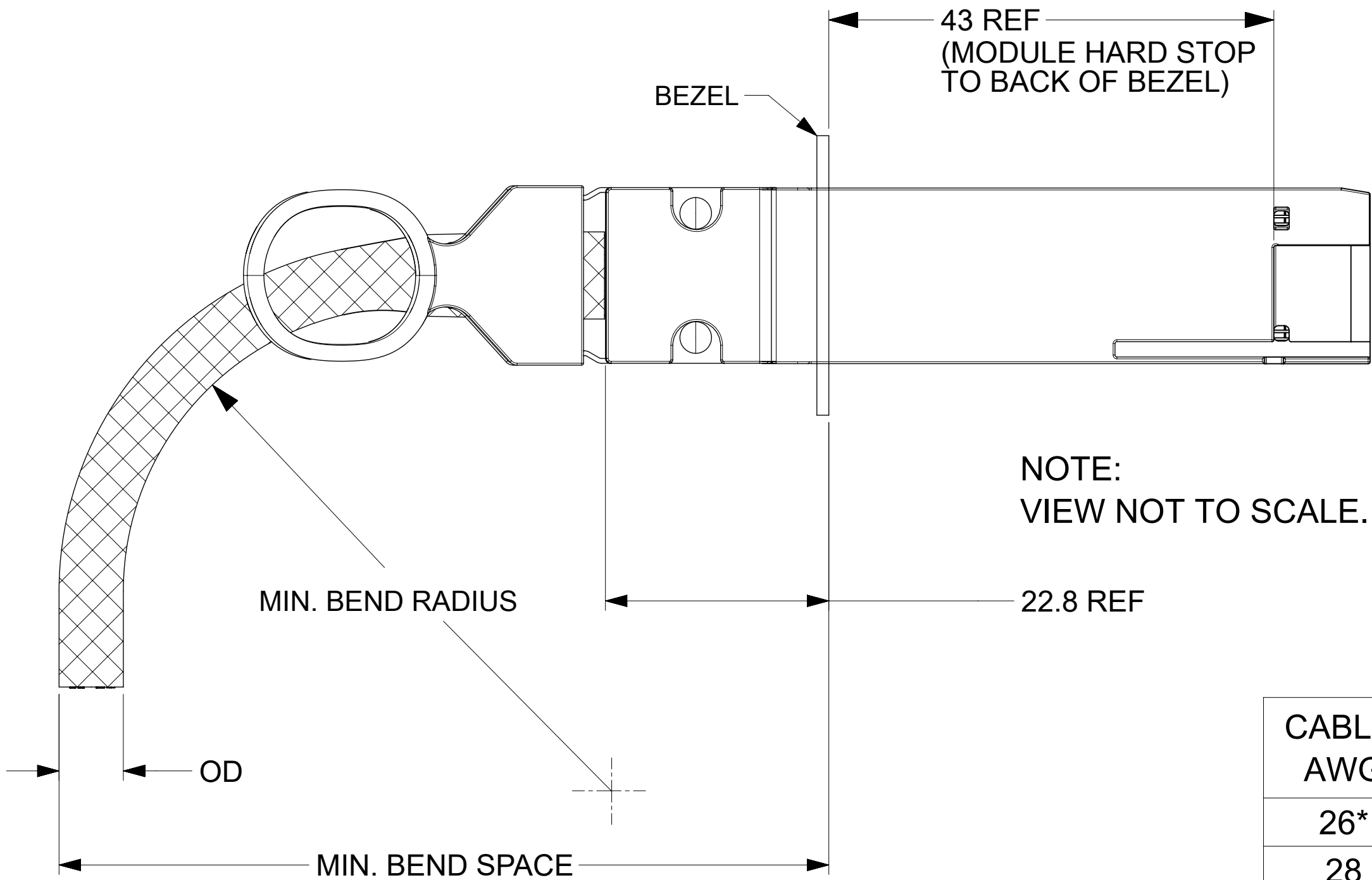


- NOTES:
1. CABLE LENGTH DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
  2. MATERIALS:
    - BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
    - DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
    - RIVETS - STAINLESS STEEL
  3. IMPEDANCE - 100 OHMS DIFFERENTIAL
  4. BUNDLED CABLE RATED UL VW-1 FLAME PER UL STYLE 21479
  5. EEPROM MAP AVAILABLE UPON REQUEST
  6. RoHS COMPLIANT, NO EXEMPTIONS

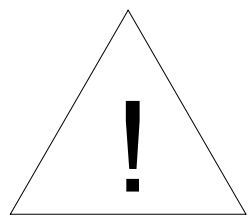
|                    |                                                                                                                                               |                                                                                       |                        |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------|--------|----------------------------------------------------------------------------------------------------|--------|--|------------------------------------------|--|----------------|---------|-----|--------|--------------|-----------------|
| FUNCTIONAL SYMBOLS | 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: SHEET 4 : ADDED LENGTH 2M 30AWG IN P/N TABLE                                     |        |  | <div>molex</div>                         |  |                |         |     |        |              |                 |
|                    | mm                                                                                                                                            |                                                                                       | 2:1                    |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |                                                                                       |                        |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | ANGULAR TOL ± 5.0 °                                                                                                                           |                                                                                       |                        |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | 4 PLACES                                                                                                                                      |                                                                                       | ±                      |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | 3 PLACES                                                                                                                                      |                                                                                       | ±                      |        | EC NO: 677116<br>DRWN: ADITHK 2021/05/24<br>CHK'D: VITTAD 2021/09/09<br>APPR: MGARRISON 2021/09/10 |        |  | QSFP-DD TO QSFP-DD 56G PASSIVE CABLE ASY |  |                |         |     |        |              |                 |
|                    | 2 PLACES                                                                                                                                      |                                                                                       | ± 0.13                 |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | 1 PLACE                                                                                                                                       |                                                                                       | ± 0.25                 |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | 0 PLACES                                                                                                                                      |                                                                                       | ±                      |        |                                                                                                    |        |  |                                          |  |                |         |     |        |              |                 |
|                    | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |                                                                                       | THIRD ANGLE PROJECTION |        |                                                                                                    |        |  |                                          |  |                | DRAWING |     | SERIES |              | DOCUMENT NUMBER |
|                    |                                                                                                                                               |  |                        | D-SIZE |                                                                                                    | 201591 |  | 2015911005                               |  | PSD            |         | 000 |        | U            |                 |
|                    |                                                                                                                                               |                                                                                       |                        |        |                                                                                                    |        |  | MATERIAL NUMBER                          |  | CUSTOMER       |         |     |        | SHEET NUMBER |                 |
|                    |                                                                                                                                               |                                                                                       |                        |        |                                                                                                    |        |  | SEE P/N TABLE                            |  | GENERAL MARKET |         |     |        | 1 OF 4       |                 |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2021/09/10 | 01:01:00 |
|-----------------|----|--------------|------------|----------|

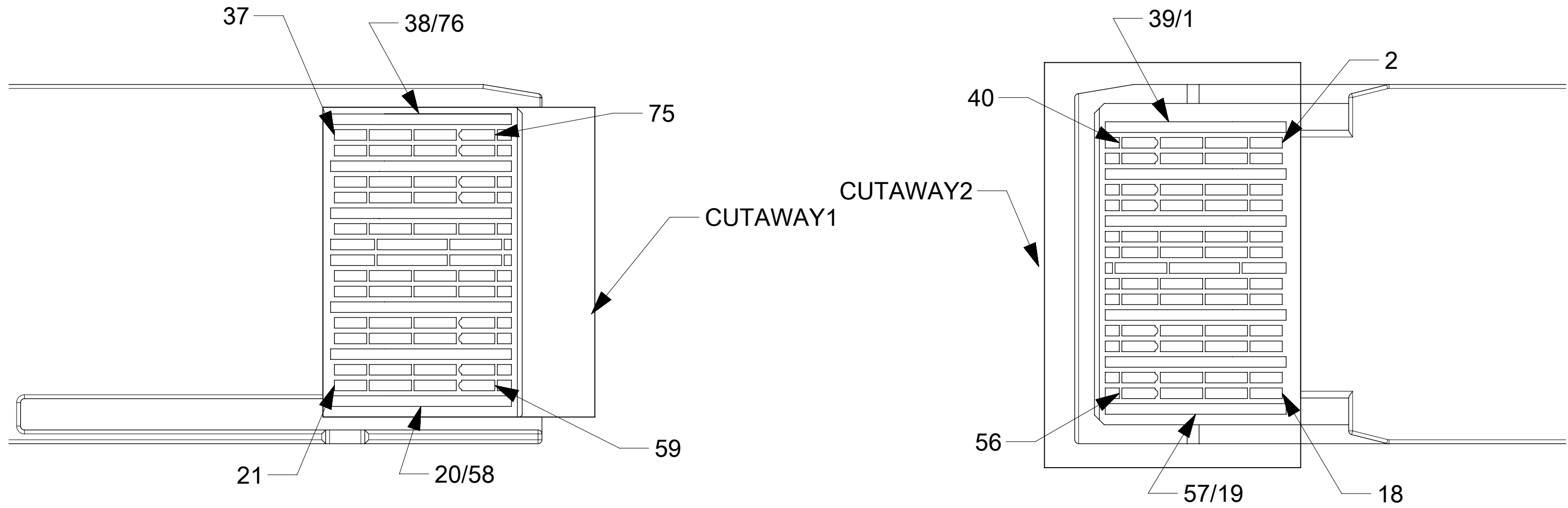
CABLE BEND RADIUS



| CABLE<br>AWG | OD<br>(mm) | MIN BEND RADIUS<br>(mm) | MIN BEND SPACE<br>(mm) |
|--------------|------------|-------------------------|------------------------|
| 26*          | (13)       | (65)                    | (101)                  |
| 28           | (11)       | (55)                    | (89)                   |
| 30           | (9.4)      | (45)                    | (77)                   |



\*MINIMUM BEND RADIUS PENDING  
QUALIFICATION. NUMBERS ABOVE ARE  
ESTIMATES AND SUBJECT TO CHANGE.



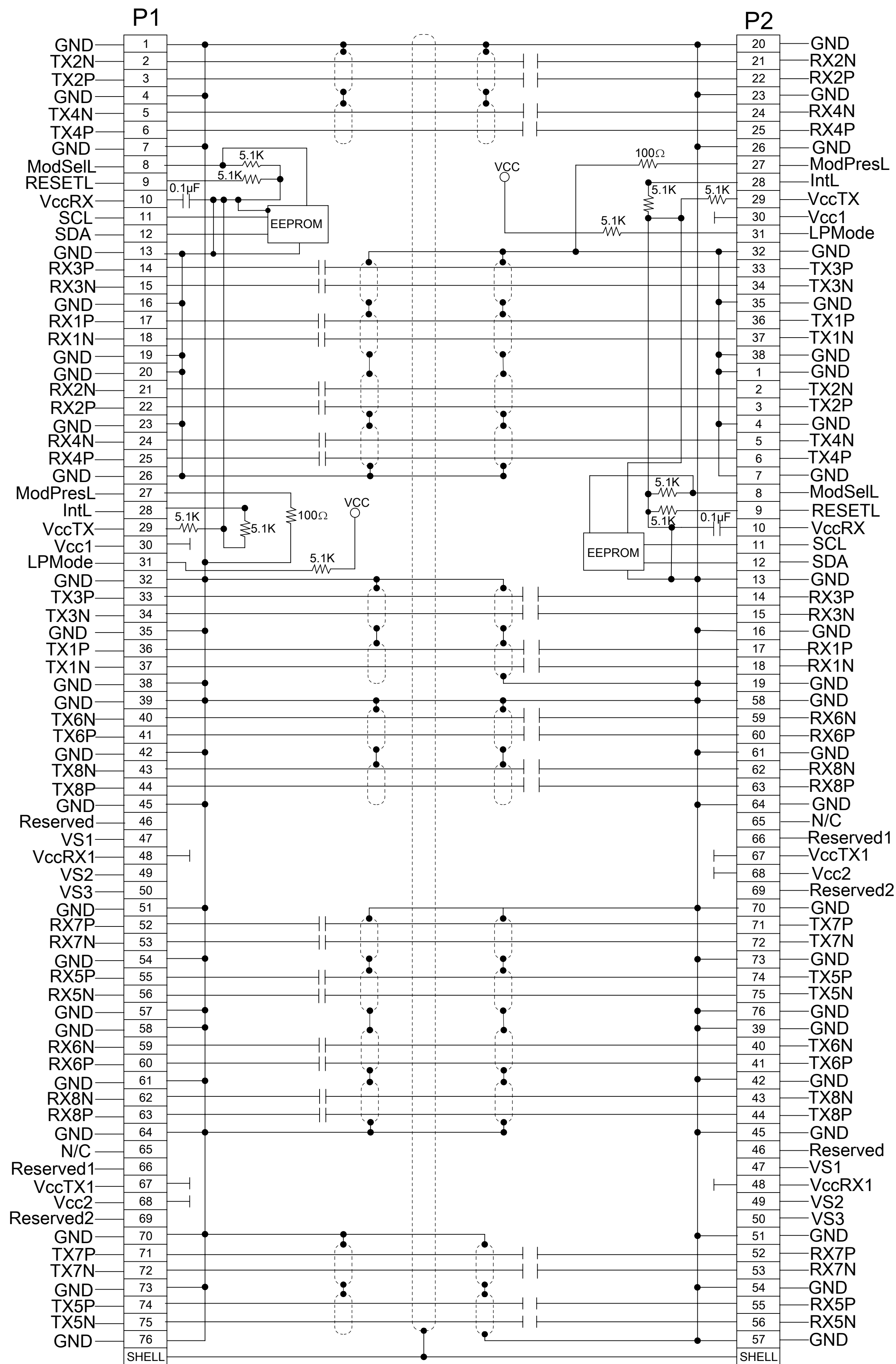
TOP VIEW

BOTTOM VIEW

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

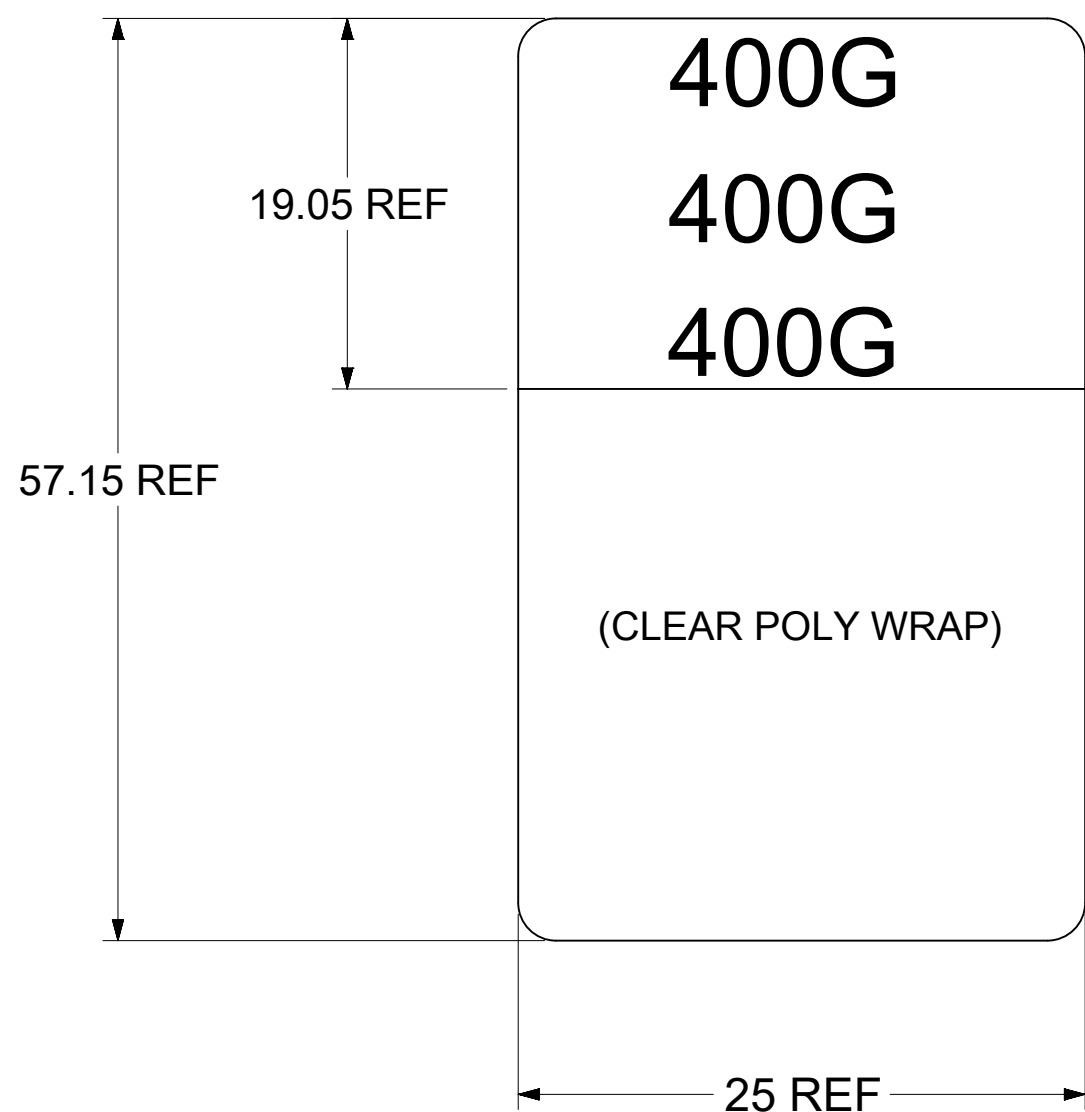
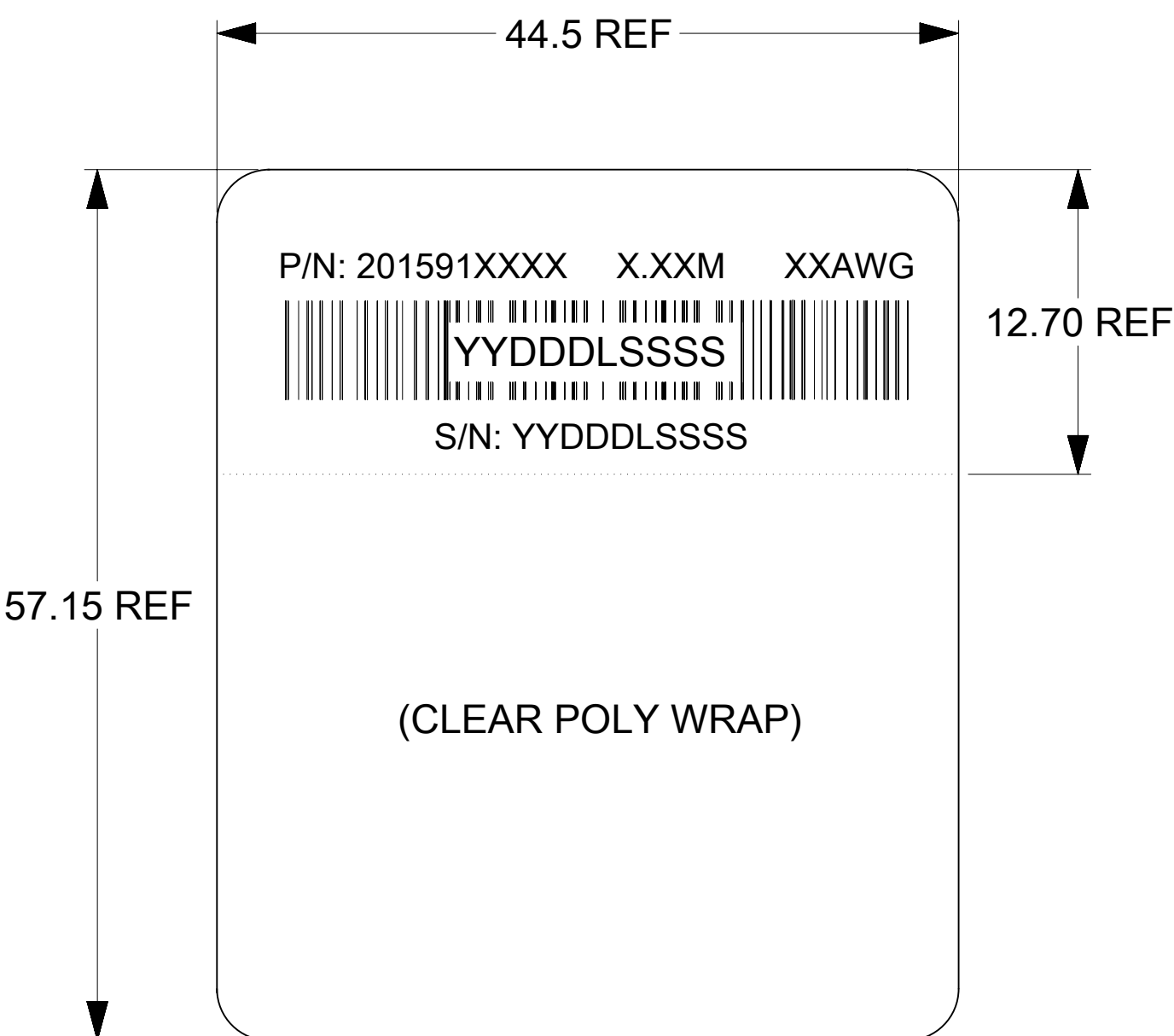
|                                                                                                                        |                                                                                                                                               |  |        |                        |                                                                                                    |         |        |                  |  |                |          |              |  |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|------------------------|----------------------------------------------------------------------------------------------------|---------|--------|------------------|--|----------------|----------|--------------|--|
| FUNCTIONAL SYMBOLS<br><div>F<br/>A</div> = 0<br><div>F<br/>C</div> = 0<br><div>F<br/>P</div> = 0<br>DIVISIONAL SYMBOLS | 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: SHEET4 : ADDED LENGTH 2M 30AWG IN P/N TABLE                                      |         |        | <div>molex</div> |  |                |          |              |  |
|                                                                                                                        | mm                                                                                                                                            |  | 20:1   |                        |                                                                                                    |         |        |                  |  |                |          |              |  |
|                                                                                                                        | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |                        | EC NO: 677116<br>DRWN: ADITHK 2021/05/24<br>CHK'D: VITTAD 2021/09/09<br>APPR: MGARRISON 2021/09/10 |         |        |                  |  |                |          |              |  |
|                                                                                                                        | ANGULAR TOL ± 5.0°                                                                                                                            |  |        |                        |                                                                                                    |         |        |                  |  |                |          |              |  |
|                                                                                                                        | 4 PLACES                                                                                                                                      |  | ±      |                        | INITIAL REVISION:<br>DRWN: TPRATT 2016/11/08<br>APPR: CHIRSCHY 2016/11/10                          |         |        |                  |  |                |          |              |  |
|                                                                                                                        | 3 PLACES                                                                                                                                      |  | ±      |                        |                                                                                                    |         |        |                  |  |                |          |              |  |
|                                                                                                                        | 2 PLACES                                                                                                                                      |  | ± 0.13 |                        | DOCUMENT NUMBER                                                                                    |         |        | DOC TYPE         |  | DOC PART       | REVISION |              |  |
|                                                                                                                        | 1 PLACE                                                                                                                                       |  | ± 0.25 |                        | 2015911005                                                                                         |         |        | PSD              |  | 000            | U        |              |  |
|                                                                                                                        | 0 PLACES                                                                                                                                      |  | ±      |                        |                                                                                                    |         |        |                  |  |                |          |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                   |                                                                                                                                               |  |        | THIRD ANGLE PROJECTION |                                                                                                    | DRAWING | SERIES | MATERIAL NUMBER  |  | CUSTOMER       |          | SHEET NUMBER |  |
|                                                                                                                        |                                                                                                                                               |  |        |                        |                                                                                                    | D-SIZE  | 201591 | SEE P/N TABLE    |  | GENERAL MARKET |          | 2 OF 4       |  |

## WIRING DIAGRAM



|                                                                                       |                                                                                                                                               |                                                                                       |        |                        |                                                                           |         |  |        |                                                                                                    |               |          |                |                                          |        |          |  |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|------------------------|---------------------------------------------------------------------------|---------|--|--------|----------------------------------------------------------------------------------------------------|---------------|----------|----------------|------------------------------------------|--------|----------|--|
| FUNCTIONAL SYMBOLS                                                                    | 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: SHEET 4 : ADDED LENGTH 2M<br>30AWG IN P/N TABLE         |         |  |        | <div>molex</div>                                                                                   |               |          |                |                                          |        |          |  |
|                                                                                       | mm                                                                                                                                            |                                                                                       | 1:1    |                        |                                                                           |         |  |        |                                                                                                    |               |          |                |                                          |        |          |  |
|                                                                                       | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |                                                                                       |        |                        |                                                                           |         |  |        | EC NO: 677116<br>DRWN: ADITHK 2021/05/24<br>CHK'D: VITTAD 2021/09/09<br>APPR: MGARRISON 2021/09/10 |               |          |                | QSFP-DD TO QSFP-DD 56G PASSIVE CABLE ASY |        |          |  |
| ANGULAR TOL ± 5.0°                                                                    |                                                                                                                                               |                                                                                       |        |                        |                                                                           |         |  |        |                                                                                                    |               |          |                |                                          |        |          |  |
| DIVISIONAL SYMBOLS                                                                    | 4 PLACES                                                                                                                                      |                                                                                       | ±      |                        | INITIAL REVISION:<br>DRWN: TPRATT 2016/11/08<br>APPR: CHIRSCHY 2016/11/10 |         |  |        | DOCUMENT NUMBER                                                                                    |               | DOC TYPE |                | DOC PART                                 |        | REVISION |  |
|                                                                                       | 3 PLACES                                                                                                                                      |                                                                                       | ±      |                        |                                                                           |         |  |        | 2015911005                                                                                         |               | PSD      |                | 000                                      |        | U        |  |
|                                                                                       | 2 PLACES                                                                                                                                      |                                                                                       | ± 0.13 |                        |                                                                           |         |  |        | MATERIAL NUMBER                                                                                    |               | CUSTOMER |                | SHEET NUMBER                             |        |          |  |
|                                                                                       | 1 PLACE                                                                                                                                       |                                                                                       | ± 0.25 |                        |                                                                           |         |  |        |                                                                                                    |               |          |                |                                          |        |          |  |
|                                                                                       | 0 PLACES                                                                                                                                      |                                                                                       | ±      |                        |                                                                           |         |  |        |                                                                                                    |               |          |                |                                          |        |          |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                            |                                                                                                                                               |                                                                                       |        | THIRD ANGLE PROJECTION |                                                                           | DRAWING |  | SERIES |                                                                                                    | SEE P/N TABLE |          | GENERAL MARKET |                                          | 3 OF 4 |          |  |
|  |                                                                                                                                               |  |        | D-SIZE                 |                                                                           | 201591  |  |        |                                                                                                    |               |          |                |                                          |        |          |  |

## LABEL DETAILS



P/N: 201591XXXX - MOLEX PART NUMBER (SEE P/N TABLE)

X.XXM - CABLE LENGTH IN METERS (EXAMPLES - 0.5M, 1.0M, 1.5M)  
SEE P/N TABLE FOR THE NUMBER OF DIGITS

XXAWG - CABLE SIZE IN AWG

S/N: YYDDDLSSSS - SERIAL NUMBER

YY = YEAR, THE LAST 2 DIGITS OF YEAR

DDD = DAY OF THE YEAR

L = LOCATION

1 - USA

## 2 - MEXICO

### 3 - CHINA

## 4 - PHILIPPINES

SSSS = SERIAL NUMBER (0001-9999)

| MOLEX P/N   | LENGTH (M)      | AWG |
|-------------|-----------------|-----|
| 2015911005* | 0.5M +/- 0.05M  | 30  |
| 2015911007  | 0.75M +/- 0.05M | 30  |
| 2015911010  | 1.0M +/- 0.05M  | 30  |
| 2015911012  | 1.25M +/- 0.05M | 30  |
| 2015911015  | 1.5M +/- 0.08M  | 30  |
| 2015911020  | 2.0M +/- 0.08M  | 30  |
| 2015913005* | 0.5M +/- 0.05M  | 28  |
| 2015913010  | 1.0M +/- 0.05M  | 28  |
| 2015913012  | 1.25M +/- 0.05M | 28  |
| 2015913015  | 1.5M +/- 0.08M  | 28  |
| 2015913017  | 1.75M +/- 0.08M | 28  |
| 2015913020  | 2.0M +/- 0.08M  | 28  |
| 2015913025  | 2.5M +/- 0.08M  | 28  |
| 2015913252  | 2.5M +/- 0.08M  | 26  |
| 2015913027  | 2.75M +/- 0.08M | 26  |
| 2015913030  | 3.0M +/- 0.08M  | 26  |

\*CABLES MAY NOT MEET ALL IEEE 802.3cd 56G PAM4 PARAMETERS

|                                                      |                                       |                                                                                                                                               |        |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--|---------------------------------------------------------------------------------------|------------------------------------------|--|---------|--------------------------|--------|----------|-----------------|--|--|----------------|----------|--|--------------|--|---|--|--|--|--|
| FUNCTIONAL SYMBOLS                                   |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
| DIVISIONAL SYMBOLS                                   | DIMENSION UNITS                       |                                                                                                                                               | SCALE  |  | CURRENT REV DESC: SHEET4 : ADDED LENGTH 2M 30AWG IN P/N TABLE                         |                                          |  | molex   |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | mm                                    |                                                                                                                                               | 1:1    |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                                               |        |  |                                                                                       | QSFP-DD TO QSFP-DD 56G PASSIVE CABLE ASY |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | ANGULAR TOL ± 5.0°                    |                                                                                                                                               |        |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | 4 PLACES                              |                                                                                                                                               | ±      |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | 3 PLACES                              |                                                                                                                                               | ±      |  |                                                                                       | EC NO: 677116                            |  |         | PRODUCT CUSTOMER DRAWING |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | 2 PLACES                              |                                                                                                                                               | ± 0.13 |  |                                                                                       | DRWN: ADITHK 2021/05/24                  |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | 1 PLACE                               |                                                                                                                                               | ± 0.25 |  |                                                                                       | CHK'D: VITTAD 2021/09/09                 |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | 0 PLACES                              |                                                                                                                                               | ±      |  |                                                                                       | APPR: MGARRISON 2021/09/10               |  |         | DOCUMENT NUMBER          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
|                                                      | INITIAL REVISION:                     |                                                                                                                                               |        |  |                                                                                       | DOC TYPE                                 |  |         |                          |        | DOC PART |                 |  |  |                | REVISION |  |              |  |   |  |  |  |  |
| DRWN: TPRATT 2016/11/08                              |                                       |                                                                                                                                               |        |  | 2015911005                                                                            |                                          |  |         |                          | PSD    |          |                 |  |  | 000            |          |  |              |  | U |  |  |  |  |
| APPR: CHIRSCHY 2016/11/10                            |                                       |                                                                                                                                               |        |  |                                                                                       |                                          |  |         |                          |        |          |                 |  |  |                |          |  |              |  |   |  |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                       |                                                                                                                                               |        |  | THIRD ANGLE PROJECTION                                                                |                                          |  | DRAWING |                          | SERIES |          | MATERIAL NUMBER |  |  | CUSTOMER       |          |  | SHEET NUMBER |  |   |  |  |  |  |
|                                                      |                                       |                                                                                                                                               |        |  |  |                                          |  | D-SIZE  |                          | 201591 |          | SEE P/N TABLE   |  |  | GENERAL MARKET |          |  | 4 OF 4       |  |   |  |  |  |  |