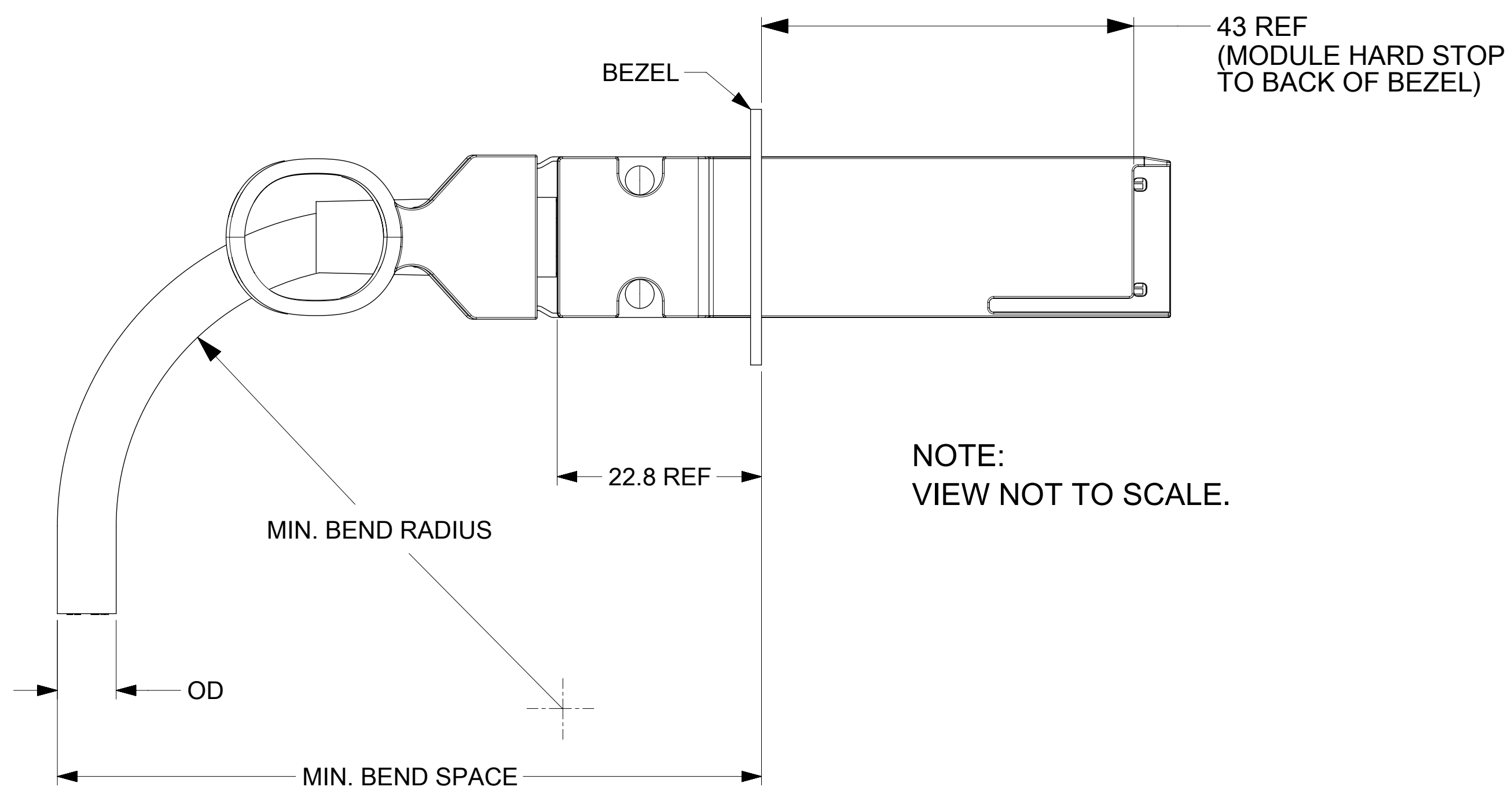


- NOTES:
1. CABLE LENGTH DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
  2. MATERIALS:
    - BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
    - DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
    - PCB - HALOGEN FREE
    - RIVETS - STAINLESS STEEL
  3. IMPEDANCE - 100 OHMS DIFFERENTIAL
  4. CABLE ASSEMBLY IS UL RECOGNIZED
  5. RoHS COMPLIANT, NO EXEMPTIONS

|                 |   |                                 |   |            |          |                            |  |                        |
|-----------------|---|---------------------------------|---|------------|----------|----------------------------|--|------------------------|
| 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: ADDED 2.5M PN   |            |          |                            |  |                        |
| ▽ = 0           | mm  | 1.5:1                           | EC NO: 606085<br>DRWN: SJKG 2018/04/11<br>CHK'D: SJKG 2018/10/17<br>APPR: KNAGANNA 2018/10/17 |            |          |                            |  |                        |
| ▽ = 0           | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                                 |   |            |          |                            |  |                        |
| ▽ = 0           | ANGULAR TOL   | ± 1.0°                          | INITIAL REVISION:<br>DRWN: KNAGANNA 2016/09/12<br>APPR: ARAYBURN 2016/09/22                   |            |          |                            |  |                        |
| ▽ = 0           | 4 PLACES  | ±                               |   |            |          |                            |  |                        |
| ▽ = 0           | 3 PLACES  | ±                               | DOCUMENT NUMBER<br><b>1002970001</b>  |            |          |                            |  |                        |
| ▽ = 0           | 2 PLACES  | ± 0.13                          |   |            |          |                            |  |                        |
| ▽ = 0           | 1 PLACE   | ± 0.25                          | DOC TYPE<br>PSD   |            |          |                            |  |                        |
| ▽ = 0           | 0 PLACES  | ±                               |   |            |          |                            |  |                        |
| ☒ = 0           | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  | THIRD ANGLE PROJECTION          | DOC PART<br>000   |            |          |                            |  |                        |
| ☒ = 0           |   | D-DRAWING<br>D-SIZE             |   |            |          |                            |  |                        |
| ☒ = 0           |   | SERIES<br>100297                | REVISION<br>R   |            |          |                            |  |                        |
| ☒ = 0           |   | MATERIAL NUMBER<br>SEE PN TABLE |   |            |          |                            |  |                        |
| DOCUMENT STATUS |   | P1                              | RELEASE DATE  | 2018/10/17 | 14:26:49 | CUSTOMER<br>GENERAL MARKET |  | SHEET NUMBER<br>1 OF 3 |

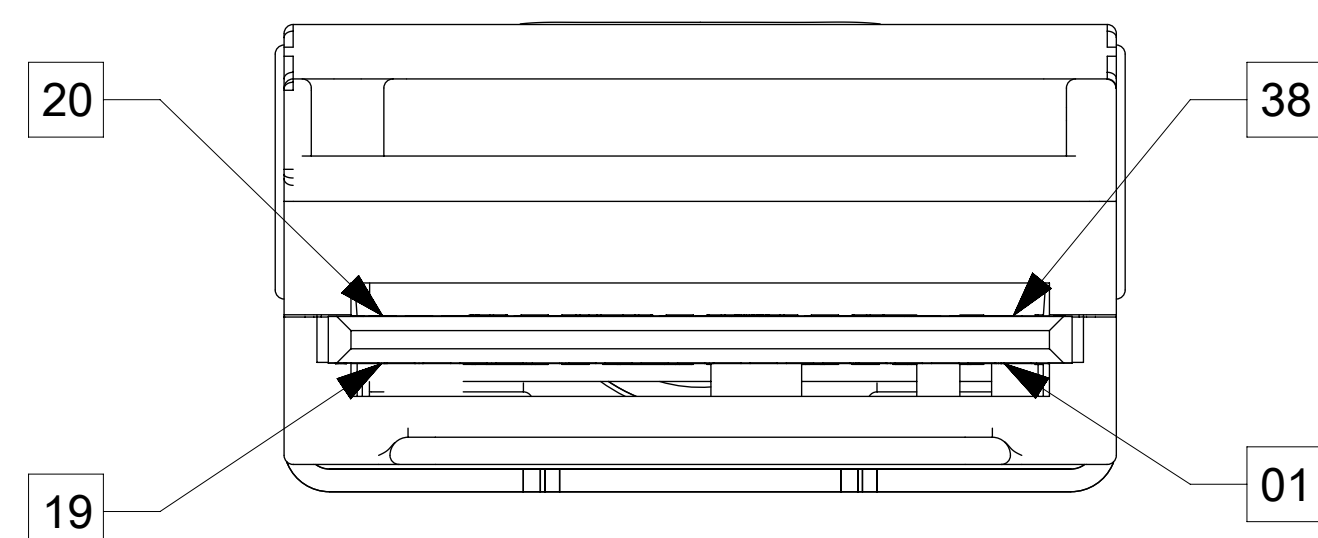
### CABLE BEND RADIUS



NOTE:  
VIEW NOT TO SCALE.

| CABLE AWG | OD (mm) | MIN BEND RADIUS (mm) | MIN BEND SPACE (mm) |
|-----------|---------|----------------------|---------------------|
| 26        | 9.53    | 48                   | 80                  |
| 30        | 6.35    | 32                   | 61                  |
| 32        | 4.95    | 25                   | 53                  |

### PINOUT



SCALE 6:1

| LOW SPEED SIGNALS<br>P1 & P2 |         |
|------------------------------|---------|
| PAD                          | SIGNAL  |
| 08                           | ModSelL |
| 09                           | ResetL  |
| 10                           | VccRx   |
| 11                           | SCL     |
| 12                           | SDA     |
| 27                           | ModPrsL |
| 28                           | IntL    |
| 29                           | VccTx   |
| 30                           | Vcc1    |
| 31                           | LPMODE  |

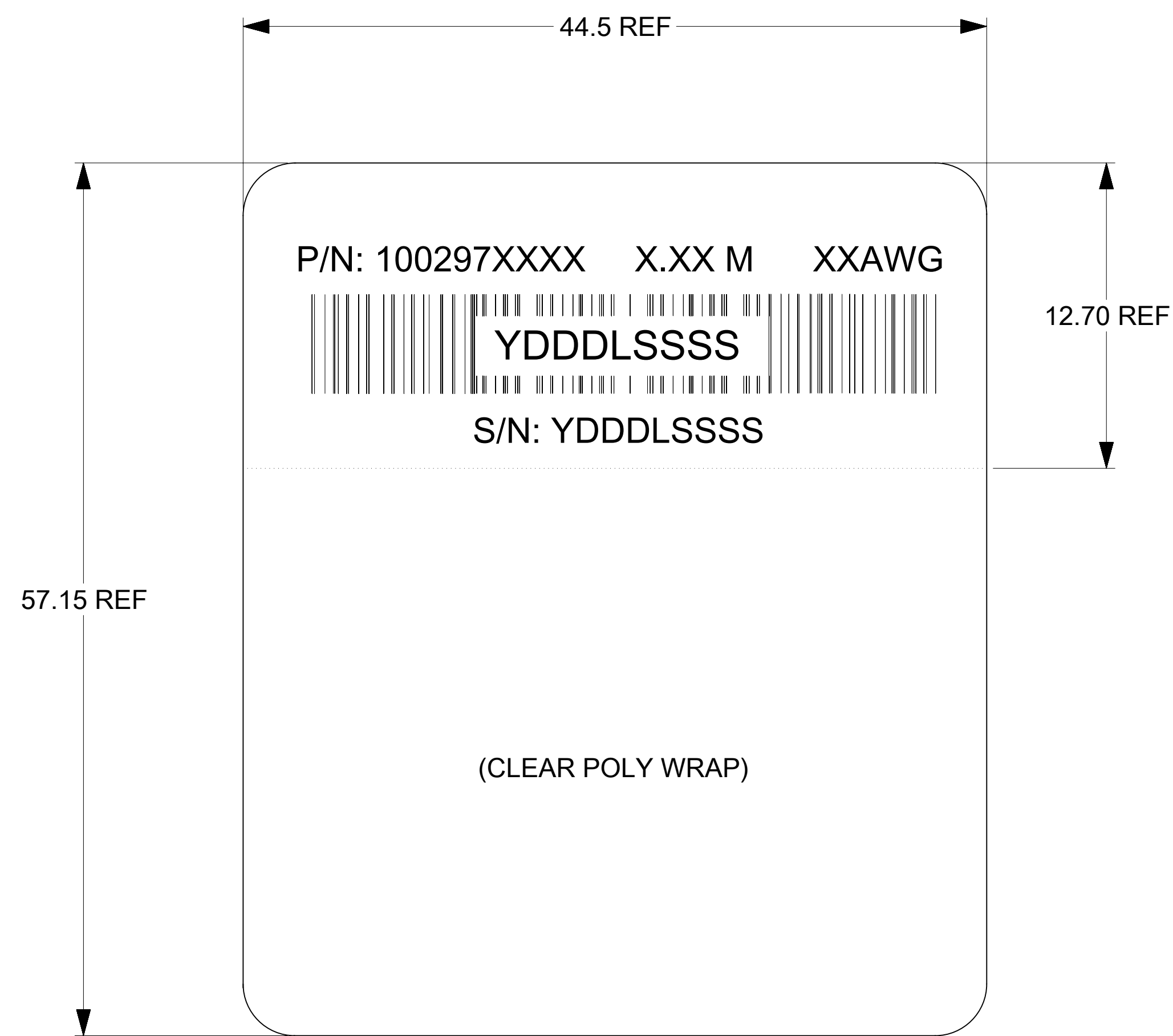
### WIRING DIAGRAM

| 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) |
| 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) |
| 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) |

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

|  |  |  |   |
|--|--|--|---|
| <b>SYMBOLS</b><br>DIMENSION UNITS: mm<br>SCALE: 1.5:1<br>GENERAL TOLERANCES (UNLESS SPECIFIED):<br>ANGULAR TOL ± 1.0°<br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.13<br>1 PLACE ± 0.25<br>0 PLACES ±<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS<br>THIRD ANGLE PROJECTION | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION<br>CURRENT REV DESC: ADDED 2.5M PN |  | <p>ZQSFP+ TO ZQSFP+<br/>QSFP28 PASSIVE CABLE ASSEMBLY</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>DOCUMENT NUMBER: 1002970001<br/>DOC TYPE: PSD<br/>DOC PART: 000<br/>REVISION: R</p> <p>MATERIAL NUMBER: 100297<br/>CUSTOMER: GENERAL MARKET<br/>SHEET NUMBER: 2 OF 3</p> |
|  | EC NO: 606085<br>DRWN: SJKG 2018/04/11<br>CHK'D: SJKG 2018/10/17<br>APPR: KNAGANNA 2018/10/17  |  |   |
|  | INITIAL REVISION:<br>DRWN: KNAGANNA 2016/09/12<br>APPR: ARAYBURN 2016/09/22  |  |   |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |  |   |

**LABEL DETAILS**



**PART NUMBER TABLE**

| MOLEX P/N  | LENGTH (M)    | AWG |
|------------|---------------|-----|
| 1002971321 | 0.32M ± 0.02M | 32  |
| 1002971015 | 0.5M ± 0.05M  | 32  |
| 1002971001 | 1.0M ± 0.05M  | 32  |
| 1002971215 | 1.5M ± 0.08M  | 32  |
| 1002971002 | 2.0M ± 0.08M  | 32  |
| 1002971051 | 0.5M ± 0.05M  | 30  |
| 1002971071 | 0.75 ± 0.05M  | 30  |
| 1002971101 | 1.0M ± 0.05M  | 30  |
| 1002971132 | 1.25M ± 0.05M | 30  |
| 1002971151 | 1.5M ± 0.08M  | 30  |
| 1002971201 | 2.0M ± 0.08M  | 30  |
| 1002971251 | 2.5M ± 0.08M  | 30  |
| 1002971301 | 3.0M ± 0.08M  | 30  |
| 1002971401 | 4.0M ± 0.08M  | 30  |
| 1002973051 | 0.5M ± 0.05M  | 26  |
| 1002973071 | 0.75M ± 0.05M | 26  |
| 1002973101 | 1.0M ± 0.05M  | 26  |
| 1002973151 | 1.5M ± 0.08M  | 26  |
| 1002973201 | 2.0M ± 0.08M  | 26  |
| 1002973251 | 2.5M ± 0.08M  | 26  |
| 1002973301 | 3.0M ± 0.08M  | 26  |
| 1002973351 | 3.5M ± 0.08M  | 26  |
| 1002973401 | 4.0M ± 0.08M  | 26  |
| 1002973501 | 5.0M ± 0.08M  | 26  |

ZQSFP+ CABLES BELOW 1M DOES NOT MEET ALL IEEE 802.3bj PARAMETERS

P/N: 100297XXXX - MOLEX PART NUMBER (SEE P/N TABLE)

X.XX M - 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: YDDLSSSS - SERIAL NUMBER  
 Y = YEAR, THE LAST DIGIT OF YEAR  
 DDD = DAY OF THE YEAR  
 L = LOCATION  
 1 - USA  
 2 - MEXICO  
 3 - CHINA  
 4 - PHILIPPINES  
 SSSS = SERIAL NUMBER (0001-9999)

|  |   |        |  |               |   |                |                 |
|--|---|--------|--|---------------|---|----------------|-----------------|
| <b>SYMBOLS</b><br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        | CURRENT REV DESC: ADDED 2.5M PN                      |               | <br><br>ZQSFP+ TO ZQSFP+<br>QSFP28 PASSIVE CABLE ASSEMBLY<br><br>PRODUCT CUSTOMER DRAWING |                |                 |
|  | DIMENSION UNITS   | SCALE  | EC NO: 606085  |               |   |                |                 |
|  | mm  | 1.5:1  | DRWN: SJKG 2018/04/11                                |               |   |                |                 |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |        | CHK'D: SJKG 2018/10/17                               |               |   |                |                 |
|  | ANGULAR TOL   | ± 1.0° | APPR: KNAGANNA 2018/10/17                            |               |   |                |                 |
|  | 4 PLACES  | ±      | INITIAL REVISION:                                    |               |   |                |                 |
|  | 3 PLACES  | ±      | DRWN: KNAGANNA 2016/09/12                            |               |   |                |                 |
|  | 2 PLACES  | ± 0.13 | APPR: ARAYBURN 2016/09/22                            |               |   |                |                 |
|  | 1 PLACE   | ± 0.25 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |               |   |                |                 |
|  | 0 PLACES  | ±      | THIRD ANGLE PROJECTION                               | DRAWING       |   | SERIES         | MATERIAL NUMBER |
|  |   |        | <b>D-SIZE</b>  | <b>100297</b> | SEE PN TABLE  | GENERAL MARKET | 3 OF 3          |