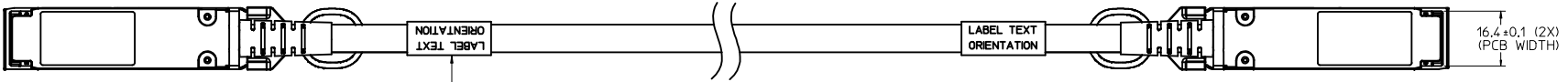
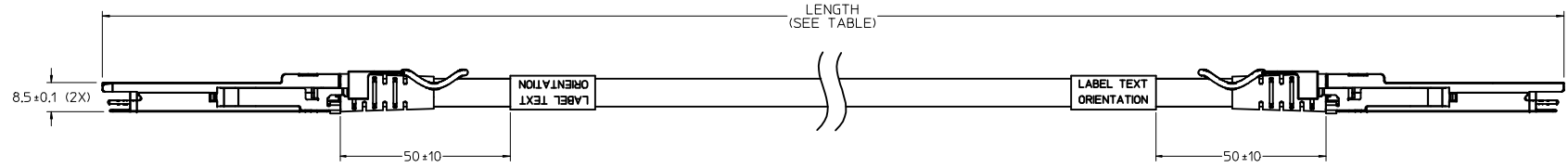
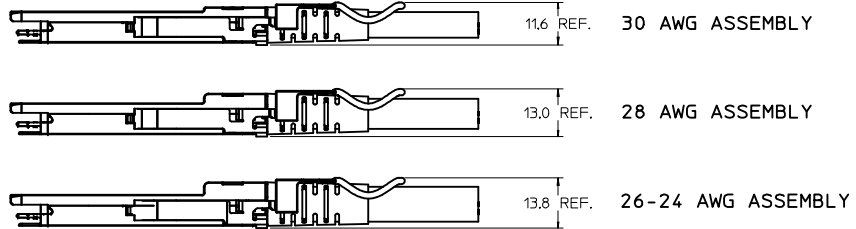


DETAIL 1
SCALE 4:1
PCB VIEWING HOLES



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

SEE SHEET 3 FOR P/N TABLE



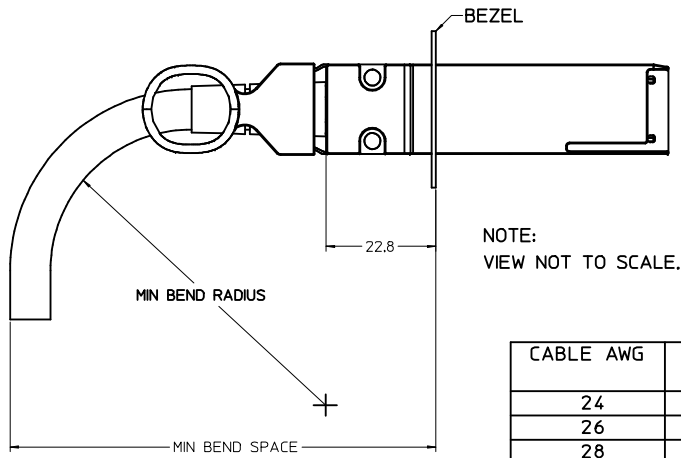
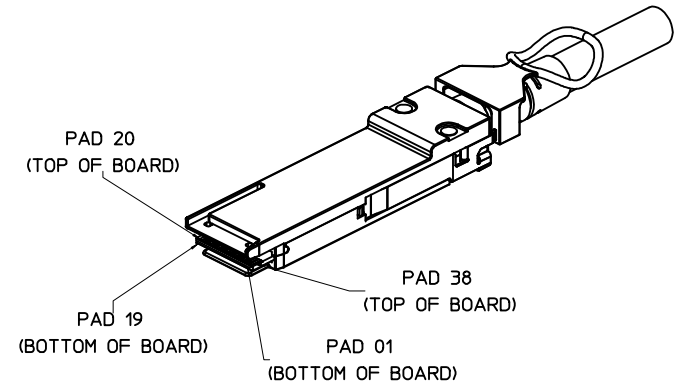
- NOTES:**
- CABLE DISTANCE DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
 - MATERIALS:**
 BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
 DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
 PCB - FR4
 RIVETS - STAINLESS STEEL
 - IMPEDANCE - 100 OHMS DIFFERENTIAL
 - RoHS COMPLIANT, WITH EXEMPTIONS

| | | | | | | |
|--|-----------------------|--|---|------------|-----------------------------------|------------------------|
| SEE REVISION TABLE EC NO: CPG2015-0547 DRAWN BY: CHYKORADVEI 2014/07/24 CHECKED BY: APPR:ARAVIRIN 2014/08/07 REV DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | ▽=0 | mm INCH | MM ONLY | 1:1 | METRIC | ☉ |
| | ▽=0 | 4 PLACES ± --- ± --- | BCHEN06_USY | DATE | TITLE | |
| | ▽=0 | 3 PLACES ± --- ± --- | DATE | 2010/04/09 | QSFP+ COPPER PATCH CABLE ASSEMBLY | |
| | 2 PLACES ± 0.13 ± --- | 1 PLACE ± 0.25 ± --- | APPROVED BY | DATE | DOCUMENT NO. | |
| | 0 PLACE ± ± | ANGULAR ± --- ° | DATE | 2010/04/12 | SD-111040-0001 | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE P/N TABLE | SHEET NO. | | 1 OF 3 |
| | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

| 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 | ■ ■ | 27 | ModPrsL | |
| 09 | ResetL | ■ ■ | 28 | IntL | |
| 10 | VccRx | ■ ■ | 29 | VccTx | |
| 11 | SCL | ■ NC | 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 | ■ ■ | 08 | ModSelL | |
| 28 | IntL | ■ ■ | 09 | ResetL | |
| 29 | VccTx | ■ ■ | 10 | VccRx | |
| 30 | Vcc1 | ■ NC | 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



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:

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

| | | | | | | |
|--|-----------------|--|----------------------------------|----------------|--------------|------------------------|
| SEE REVISION TABLE EC NO: CPG2015-0547 DRAWN BY: CHYKRADEI 2014/07/24 CHECKED BY: APPR:ARABURN 2014/08/07 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | ▽=0 | mm INCH | MM ONLY | 1:1 | METRIC | |
| | ▽=0 | 4 PLACES ± --- ± --- | | | | |
| | ▽=0 | 3 PLACES ± 0.13 ± --- | | | | |
| | | ANGULAR ± --- ° | | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE P/N TABLE | | | |
| | | | DRAWN BY: BCHENO6_USY 2010/04/09 | | | |
| | | | CHECKED BY: KLLLOYD 2010/04/09 | | | |
| | | | APPROVED BY: RMAHMOOD 2010/04/12 | | | |
| | | | MATERIAL NO. | DOCUMENT NO. | | |
| | | | | SD-111040-0001 | | |
| | | | | | | SHEET NO. 2 OF 3 |
| | | | | | | |

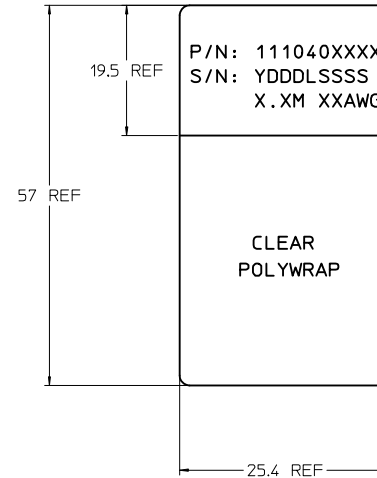
OSFP+ COPPER PATCH CABLE ASSEMBLY

molex

PART NUMBER TABLE

| MOLEX P/N | LENGTH (M) | LENGTH TOLERANCE (mm) | AWG | CABLE MFG |
|------------|------------|-----------------------|-----|------------|
| 1110401044 | 0.35 | ±30 | 30 | MADISON 10 |
| 1110401054 | 0.5 | ±30 | 30 | MADISON 10 |
| 1110401104 | 1.0 | ±50 | 30 | MADISON 10 |
| 1110401204 | 2.0 | ±50 | 30 | MADISON 10 |
| 1110401304 | 3.0 | ±50 | 30 | MADISON 10 |
| 1110401324 | 3.2 | ±50 | 30 | MADISON 10 |
| 1110401404 | 4.0 | ±50 | 30 | MADISON 10 |
| 1110401504 | 5.0 | ±80 | 30 | MADISON 10 |
| 1110401704 | 7.0 | ±80 | 30 | MADISON 10 |
| 1110402054 | 0.5 | ±30 | 28 | MADISON 10 |
| 1110402104 | 1.0 | ±50 | 28 | MADISON 10 |
| 1110402204 | 2.0 | ±50 | 28 | MADISON 10 |
| 1110402304 | 3.0 | ±50 | 28 | MADISON 10 |
| 1110402404 | 4.0 | ±50 | 28 | MADISON 10 |
| 1110402504 | 5.0 | ±80 | 28 | MADISON 10 |
| 1110402604 | 6.0 | ±80 | 28 | MADISON 10 |
| 1110402704 | 7.0 | ±80 | 28 | MADISON 10 |
| 1110403054 | 0.5 | ±50 | 26 | MADISON 10 |
| 1110403104 | 1.0 | ±50 | 26 | MADISON 10 |
| 1110403204 | 2.0 | ±50 | 26 | MADISON 10 |
| 1110403205 | 2.0 | ±50 | 26 | BELDEN |
| 1110403304 | 3.0 | ±50 | 26 | MADISON 10 |
| 1110403404 | 4.0 | ±50 | 26 | MADISON 10 |
| 1110403504 | 5.0 | ±80 | 26 | MADISON 10 |
| 1110403505 | 5.0 | ±80 | 26 | BELDEN |
| 1110403604 | 6.0 | ±80 | 26 | MADISON 10 |
| 1110403704 | 7.0 | ±80 | 26 | MADISON 10 |
| 1110404054 | 0.5 | ±50 | 24 | MADISON 10 |
| 1110404104 | 1.0 | ±50 | 24 | MADISON 10 |
| 1110404204 | 2.0 | ±50 | 24 | MADISON 10 |
| 1110404304 | 3.0 | ±50 | 24 | MADISON 10 |
| 1110404404 | 4.0 | ±50 | 24 | MADISON 10 |
| 1110404504 | 5.0 | ±80 | 24 | MADISON 10 |
| 1110404604 | 6.0 | ±80 | 24 | MADISON 10 |
| 1110404704 | 7.0 | ±80 | 24 | MADISON 10 |
| 1110404804 | 8.0 | ±80 | 24 | MADISON 10 |
| 1110409010 | 10.0 | ±80 | 30 | MADISON 10 |
| 1110409011 | 10.0 | ±80 | 28 | MADISON 10 |
| 1110409012 | 10.0 | ±80 | 26 | MADISON 10 |
| 1110409013 | 10.0 | ±08 | 24 | MADISON 10 |
| 1110409018 | 15.0 | ±80 | 24 | MADISON 10 |

CABLE LABEL DETAIL



YDDLSSSS

Y = YEAR, THE LAST DIGIT OF THE YEAR
 DDD = DAY OF THE YEAR
 L = LOCATION (1=US, 2=MEXICO, 3=CHINA)
 SSSS = SERIAL NUMBER (0001-9999)

X.XM = LENGTH AS SHOWN IN P/N TABLE

XXAWG = AWG SIZE

| | | | | | | | |
|---|-----------------|--|--|-----------------------------|-----------------------------------|------------------------|--|
| SEE REVISION TABLE IEC NO: CPG2015-0547 DRAWN BY: DRWNEEDINA 2014/07/24 CHECKED BY: CHYORAGELI 2014/07/28 APPROVED BY: APPR:RAYBURN 2014/08/07 REV DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | ▽=0 | mm INCH | MM ONLY | 1:1 | METRIC | | |
| | ▽=0 | 4 PLACES ±---+ 3 PLACES ±---+ 2 PLACES ±0.13+ 1 PLACE ±0.25+ 0 PLACE ±+ ANGULAR ±---° | DRAWN BY: BCHEN06_USY 2010/04/09 CHECKED BY: KLLLOYD 2010/04/09 APPROVED BY: RMAHMOOD 2010/04/12 | TITLE | QSFP+ COPPER PATCH CABLE ASSEMBLY | | |
| | ▽=0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE P/N TABLE | DOCUMENT NO. SD-111040-0001 | SHEET NO. 3 OF 3 | | |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | |