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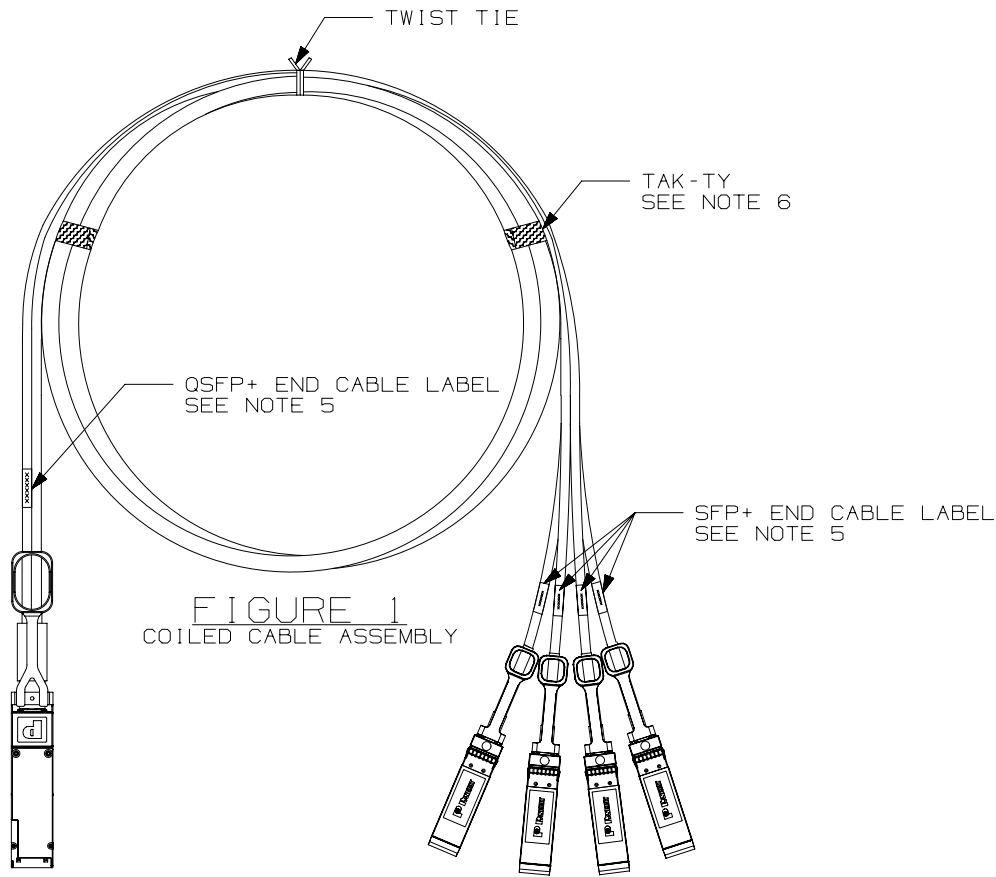
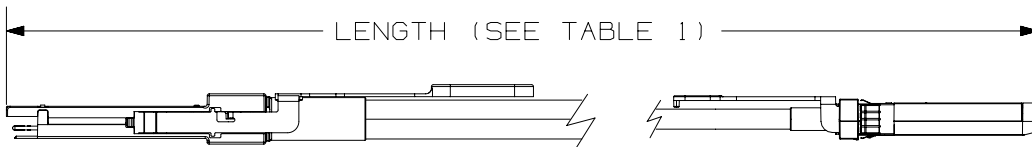



FIGURE 1  
COILED CABLE ASSEMBLY

NOTES:

1. SEE CATALOG FOR COMPLETE LIST OF PARTS APPLICABLE FOR USE WITH THIS PART.
2. PRODUCT DESCRIPTION:  
SFP+ CABLE END-  
A. 1 LANE, 10Gbps  
B. STANDARD SFP+ CONNECTOR  
C. CL2 RATED JACKET  
QSFP+ CABLE END-  
A. 4 LANE, 10Gbps/LANE  
B. STANDARD QSFP CONNECTOR  
C. CL2 RATED JACKET
3. SFP+ CONNECTOR MATES WITH SFP+ SFF-8431 INTERFACE.
4. QSFP+ CONNECTOR MATES WITH QSFP SFF-8436 INTERFACE.
5. QSFP+ END CABLE LABEL CONTAINS PRODUCT DESCRIPTION, PART NUMBER, LENGTH, WIRE GAUGE AND MANUFACTURING SERIAL NUMBER. SFP+ ENDS WILL HAVE CABLE NUMBER LABEL.
6. 1 AND 1.5 METER CABLES WILL HAVE 2 BLACK TAK-TY'S, 2 AND 2.5 METER CABLES WILL HAVE 3 BLACK TAK-TY'S AND 3 AND 3.5 METER CABLES WILL HAVE 4 BLACK TAK-TY'S, ALL EQUALLY SPACED.

| TABLE 1   |                     |                |           |
|---|---------------------|----------------|-----------|
| QSFP+ TO 4X SFP+ BREAKOUT CABLE LENGTH SPECIFICATION, WIRE SIZE |                     |                |           |
| PANDUIT PART NUMBER   | P/N CODE FOR LENGTH | LENGTH IN FEET | CABLE AWG |
| PHQ4SFPXA1MBL   | 1M                  | 3.3 FT         | 30        |
| PHQ4SFPXA1.5MBL   | 1.5M                | 4.9 FT         | 30        |
| PHQ4SFPXA2MBL   | 2M                  | 6.6 FT         | 30        |
| PHQ4SFPXA2.5MBL   | 2.5M                | 8.2 FT         | 30        |
| PHQ4SFPXA3MBL   | 3M                  | 9.8 FT         | 30        |
| PHQ4SFPXA3.5MBL   | 3.5M                | 11.5 FT        | 30        |



|   |          |   |       |
|---|----------|---|-------|
| PART NUMBER   |          | SEE TABLE 1   |       |
| TITLE   |          |   |       |
| QSFP+ TO 4X SFP+ BREAKOUT CABLE                                 |          |   |       |
| CUSTOMER DRAWING  |          |   |       |
| ITEM REVISION NAME  |          | 11M284AF/02   |       |
| DATASET FILE NAME   |          | 11M284AF_DC02/02A   |       |
| UNLESS OTHERWISE SPECIFIED, DIMENSIONAL TOLERANCES ARE: IN (mm) |          |  |       |
| .x ± .xxx ± .010 (.3)<br>.xx ± .03 (.8)      ANGLES ±           |          |   |       |
| DRAWING NUMBER:   |          | 11M284AF-02   |       |
| DRAWN BY  | DATE     | CHK   | SCALE |
| MDJr  | 12-20-11 |   | NONE  |
| SHT 1 OF 2  |          | A   |       |

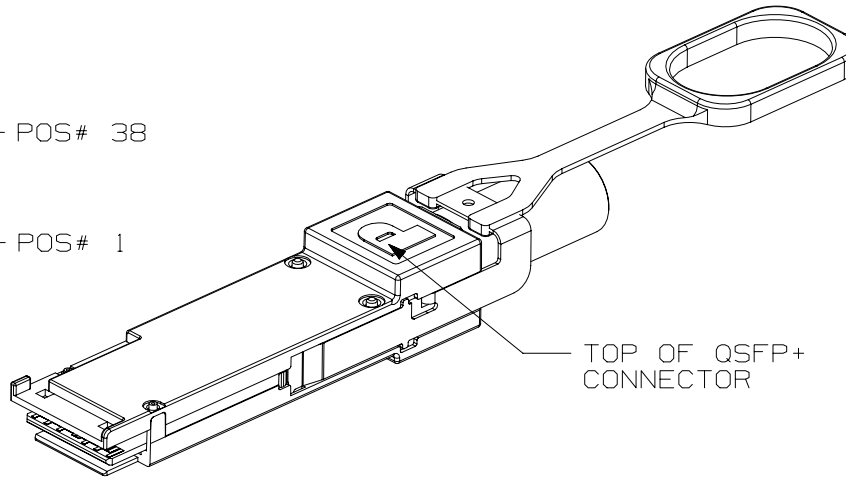
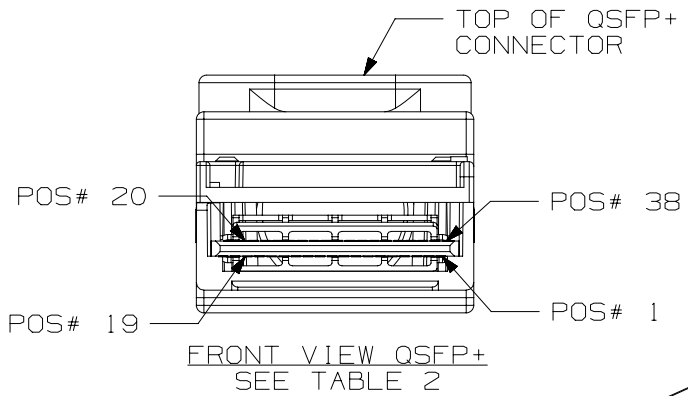
| REV | DATE    | BY  | CHK | APR | DESCRIPTION  | ECN         |
|-----|---------|-----|-----|-----|--|-------------|
| 3   | 4-7-16  | BJN | JAV | DFP | UPDATED  | 11M284AF-02 |
| 2   | 3-21-16 | BJN | JAV | DFP | UPDATED  | 11M284AF-02 |
| 1   | 5-27-14 | BJN | JSP | FMS | REVISED & REDRAWN PREVIOUS REVISIONS REMVD FOR CLARITY | 11M284AF-02 |

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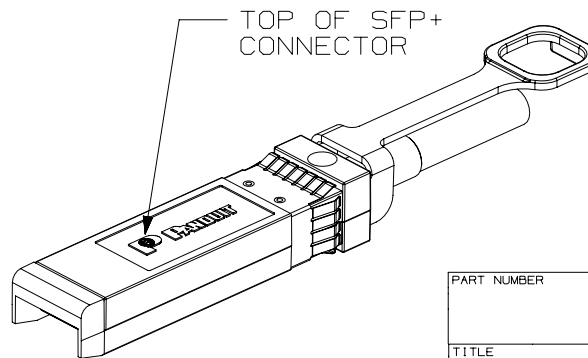
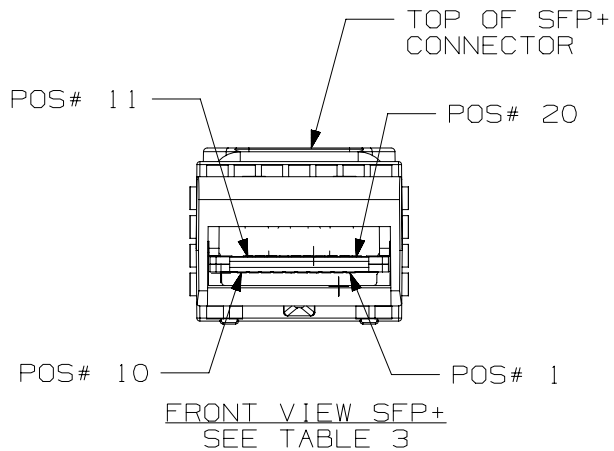
**TABLE 2**  
QSFP+ PINOUT DIAGRAM

| BOTTOM SIDE |          | TOP SIDE |         |
|-------------|----------|----------|---------|
| POS #       | SIGNAL   | POS #    | SIGNAL  |
| 1           | GND      | 20       | GND     |
| 2           | TX2-     | 21       | RX2-    |
| 3           | TX2+     | 22       | RX2+    |
| 4           | GND      | 23       | GND     |
| 5           | TX4-     | 24       | RX4-    |
| 6           | TX4+     | 25       | RX4+    |
| 7           | GND      | 26       | GND     |
| 8           | MODESELL | 27       | MODPRSL |
| 9           | RESETL   | 28       | INTL    |
| 10          | VCC RX   | 29       | VCC TX  |
| 11          | SCL      | 30       | VCC1    |
| 12          | SDA      | 31       | LPMODE  |
| 13          | GND      | 32       | GND     |
| 14          | RX3+     | 33       | TX3+    |
| 15          | RX3-     | 34       | TX3-    |
| 16          | GND      | 35       | GND     |
| 17          | RX1+     | 36       | TX1+    |
| 18          | RX1-     | 37       | TX1-    |
| 19          | GND      | 38       | GND     |




**TABLE 3**  
SFP+ PINOUT DIAGRAM

| BOTTOM SIDE |              | TOP SIDE |        |
|-------------|--------------|----------|--------|
| POS #       | SIGNAL       | POS #    | SIGNAL |
| 1           | VEET*        | 11       | VEER*  |
| 2           | TX_FAULT**   | 12       | RD-    |
| 3           | TX_DISABLE** | 13       | RD+    |
| 4           | SDA          | 14       | VEER*  |
| 5           | SCL          | 15       | VCCR   |
| 6           | MOD_ABS      | 16       | VCCT   |
| 7           | RS0          | 17       | VEET*  |
| 8           | RX_LOS**     | 18       | TD+    |
| 9           | RS1          | 19       | TD-    |
| 10          | VEER*        | 20       | VEET*  |



- \* VEE PINS CONNECT FIRST UPON PLUGGING IN.
- \*\* TX\_FAULT, TX\_DISABLE, AND RX\_LOS ARE DEFINED IN SFF-8431, BUT ARE NOT USED IN PASSIVE DIRECT ATTACH COPPER CABLES.

|   |          |   |       |
|---|----------|---|-------|
| PART NUMBER   |          | SEE TABLE 1   |       |
| TITLE   |          |   |       |
| <b>QSFP+ TO 4X SFP+ BREAKOUT CABLE</b>                          |          |   |       |
| CUSTOMER DRAWING  |          |   |       |
| ITEM REVISION NAME  |          | 11M284AF/02   |       |
| DATASET FILE NAME   |          | 11M284AF_DC02/02A   |       |
| UNLESS OTHERWISE SPECIFIED, DIMENSIONAL TOLERANCES ARE: IN (mm) |          |  |       |
| .x ± .xxx ± .010 (.3)<br>.xx ± .03 (.8)      ANGLES ±           |          |   |       |
| DRAWING NUMBER:   |          | 11M284AF-02   |       |
| DRAWN BY  | DATE     | CHK   | SCALE |
| MDJr  | 12-20-11 |   | NONE  |
| REV   | DATE     | BY  | CHK   |
| 3   | 4-7-16   | BJN   | JAV   |
| DESCRIPTION   | ECN      | SHT 2 OF 2  |       |
| SEE SHEET 1 FOR REVISION HISTORY                                |          | A   |       |
| 11M284AF-02   |          | A   |       |

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