



Product Change Notification

Change Notification #: 116595 - 00
Change Title: Intel® Omni-Path Active Optical Cable (AOC) QSFP-QSFP Cable Assemblies
PCN 116595-00, Transport Media, Mechanical Strain Relief and Package Improvement
Date of Publication: November 19, 2018

Key Characteristics of the Change:

Transport Media

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	December 3, 2018
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The date of "First Availability of Post-Conversion Material" is the projected date that a customer may expect to receive the Post-Conversion Materials.

Description of Change to the Customer:

Affected Product Code	Product Description
100FRRA0030	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 3.0M 100FRRA0030
100FRRA0050	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 5.0M 100FRRA0050
100FRRA0100	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 10.0M 100FRRA0100
100FRRA0150	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 15.0M 100FRRA0150
100FRRA0200	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 20.0M 100FRRA0200
100FRRA0300	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 30.0M 100FRRA0300
100FRRA0400	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 40.0M 100FRRA0400
100FRRA0500	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 50.0M 100FRRA0500
100FRRA0600	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 60.0M 100FRRA0600
100FRRA1000	Intel® Omni-Path Cable Active Optical Cable QSFP-QSFP A 100.0M 100FRRA1000

Overview of Changes:

Change 1: An improvement to the strain relief of the cable to connector housing has been made to make the product more robust.

Change 2: A new packaging method has been implemented to improve cable containment within the single box container.

Product Change Details:

Change 1: AOC cables within the following date code range [APE3917XXX to APE1818XXX] were susceptible to damage if the cables were uncoiled using improper methods. The damage resulted when the cable jacket and ferrule rotated in the cable connector housing.

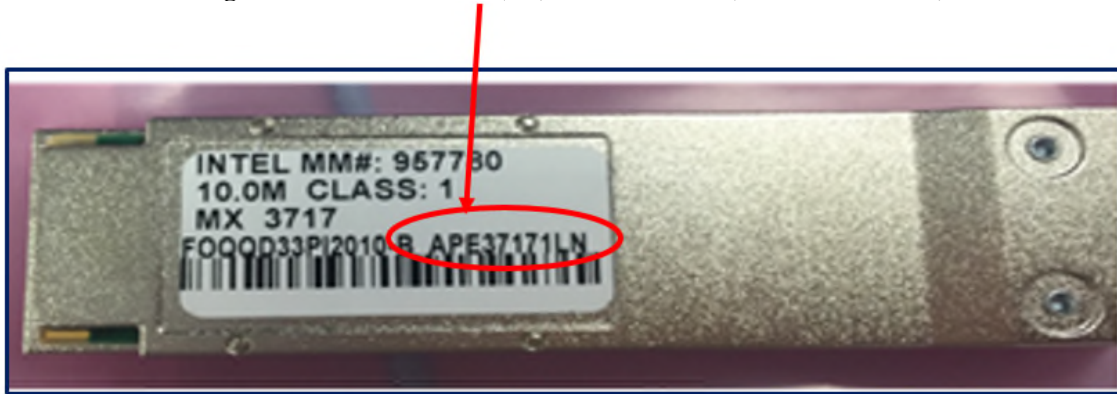
Corrective action was implemented by the AOC supplier with qualification testing to correct this issue per the test methods shown in Table 1 below.

Table 1. AOC vendor qualification test methods

Group 5	Cable Torsion	15N weight, clamped 30cm from strain relief, ± 180°, 25 cycles	1056-RPM777811
	Cable Flex	0.9kg load 22-28cm from end of strain relief. Cable flexed from 0° > 90° > 0° > -90° > 0° for 200 cycles.	1056-RPM777811 GR-326 section 4.4.3.2 SFF-8417
	Cable Pull	Cable to XCede end, 100N. LC ends, 70N each end. Junction, 40N.	1056-RPM777811

To identify the Serial Number (SN) date codes, Figure 1 details the Serial Number (SN) location on the cable connectors and the format to correctly define date codes. In the example below, the date code in the SN string APE3717XXX identifies the week (WW) as 37 and 2-digit year (YY) as 17 (2017). To correctly define date codes, look for the identified WWYY ranges.

Figure 1. Serial Number (SN) with date code (APEWWYYXXX)



Change 2: To protect product cables from damage during shipping and storage the existing packaging method has been updated.

The improvements include a single-box packaging for the AOCs. The new method is to place the AOC into an individual box with an anti-static foam cut-out that allows containment of the cable loop and cable ends, with a top cover anti-static foam piece. See Figures 2 through 4 below for details comparing old package method to new package method.

Figure 2. AOC Cable in a Single-Box (Original Method)



Figure 3. AOC Cable in a Single-Box with Foam Insert (Updated Method)



Figure 4. Sealed Box Unchanged



Customer Impact of Change and Recommended Action:

Intel is not recommending additional customer qualification of these changes. Additionally, there is no change to the Intel Material Master (MM) numbers. Material with Serial Number date code WWYY of APE1918XXX or later incorporates strain relief improvement defined in Change 1. New packaging was implemented calendar WW40 of 2018 per Change 2.

For customers who have AOC cable material with date codes ranging from APE3917XXX to APE1818XXX in spares inventory or ready to install, please contact Intel® Omni-Path technical support at fabricsupport@intel.com to initiate an RMA.

For customers who have AOC cable material from this date code range already in operation and functioning without issues, the cables will continue to operate normally and no change is recommended. If AOC cable material with date code ranges as defined above are in place but must be handled or moved and experience abnormal operation, Intel recommends replacing the cable(s) with the improved strain-relief version.

Milestone dates are estimates and subject to change based on business and operational conditions.

Products Affected / Intel Ordering Codes:

Product Code	MM#
100FRRA0030	957778
100FRRA0050	957780
100FRRA0100	957781
100FRRA0150	957782
100FRRA0200	957783
100FRRA0300	957784
100FRRA0400	957785
100FRRA0500	957786
100FRRA0600	957788
100FRRA1000	958487

PCN Revision History:

Date of Revision:
November 19, 2018

Revision Number:
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Reason:
Originally Published PCN



Product Change Notification

116595 - 00

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Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

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