

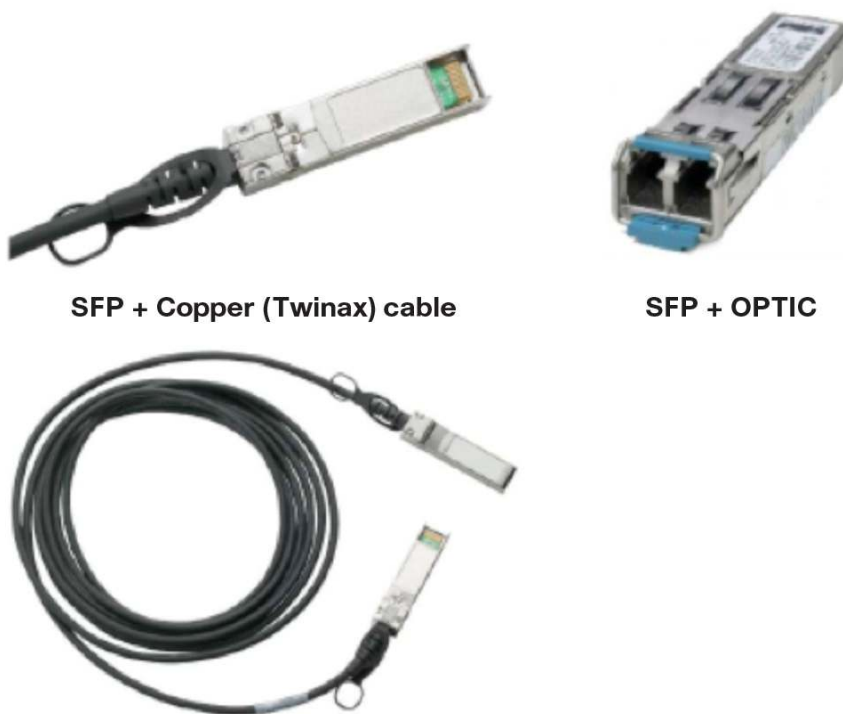
# Twinax cables certification matrix for Cisco<sup>®</sup> Nexus 2000 and Nexus 5000 Series Switches

**Revised:** February, 2012

The Cisco<sup>®</sup> Nexus<sup>™</sup> 2000 and Nexus 5000 Series Data Center switches deliver an innovative architecture to simplify data center transformation by enabling a high-performance, standards-based Ethernet unified fabric.

Both Nexus 2000 and Nexus 5000 series switches use SFP+ form-factor for 10GE interconnects, which is capable of providing 10GE support in either copper or fiber media.

**Figure 1.** 10GBase-SFP Modules



**Note:** Requirements and procedures for initial configurations and software upgrades tend to change and therefore appear only in the switch or router software release notes. Before installing, configuring, or upgrading a switch, refer to the product release notes on Cisco.com for the latest information. This matrix does not replace or supersede the release notes.

## Twinax Cables Certification Matrix for Nexus 2000 and Nexus 5000 Switches

| Platform          | Twinax Cables         | Length | Vendor          | Minimum Software   |
|-------------------|-----------------------|--------|-----------------|--------------------|
| N5K-C5010P-BF     | SFP-H10GB-CU1M        | 1M     | Cisco           | NX-OS 4.0(0)N1(1)  |
| N5K-C5020P-BF     | SFP-H10GB-CU3M        | 3M     | Cisco           | NX-OS 4.0(0)N1(1)  |
| N5K-M1600         | SFP-H10GB-CU5M        | 5M     | Cisco           | NX-OS 4.0(0)N1(1)  |
| N5K-M1404         | SFP-H10GB-ACU7M       | 7M     | Cisco           | NX-OS 4.2(1)N1(1)  |
|                   | SFP-H10GB-ACU10M      | 10M    | Cisco           | NX-OS 4.2(1)N1(1)  |
| N5K-C5548P-FA     | NEX-5020-TX1M         | 1M     | EMC             | NX-OS 4.0(0)N1(2a) |
| N55-M16P          | NEX-5020-TX3M         | 3M     | EMC             | NX-OS 4.0(0)N1(2a) |
| N55-M8P8FP        | NEX-5020-TX5M         | 5M     | EMC             | NX-OS 4.0(0)N1(2a) |
|                   | 3722 S51 5510         | 1M     | IBM             | NX-OS 4.1(3)N1(1)  |
| N5K-C5548UP-FA    | 3722 S51 5520         | 3M     | IBM             | NX-OS 4.1(3)N1(1)  |
| N5K-C5596UP-FA    | 3722 S51 5530         | 5M     | IBM             | NX-OS 4.1(3)N1(1)  |
| N55-M16UP         | AP784A                | 3M     | HP StorageWorks | NX-OS 4.1(3)N1(1)  |
|                   | AP785A                | 5M     | HP StorageWorks | NX-OS 4.1(3)N1(1)  |
|                   | X-SFP-H10GB-CU1M-R6   | 1M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2148T-1GE    | X-SFP-H10GB-CU1M-R6-C | 1M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2248TP-1GE   | X-SFP-H10GB-CU3M-R6   | 3M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2248TP-E-1GE | X-SFP-H10GB-CU3M-R6-C | 3M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2224TP-1GE   | X-SFP-H10GB-CU5M-R6   | 5M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2232PP-10GE  | X-SFP-H10GB-CU5M-R6-C | 5M     | NetApp          | NX-OS 4.0(1A)N1(1) |
| N2K-C2232TM-10GE  | PSF1PXA1MBU           | 1M     | Panduit         | NX-OS 5.0(3)N1(1)  |
|                   | PSF1PXA1.5MBU         | 1.5M   | Panduit         | NX-OS 5.0(3)N1(1)  |
|                   | PSF1PX2MBU            | 2M     | Panduit         | NX-OS 5.0(3)N1(1)  |
|                   | PSF1PXA2.5MBU         | 2.5M   | Panduit         | NX-OS 5.0(3)N1(1)  |
|                   | PSF1PXA3MBU           | 3M     | Panduit         | NX-OS 5.0(3)N1(1)  |
|                   | PSF1PXD5MBU           | 5M     | Panduit         | NX-OS 5.0(3)N1(1)  |

## Twinax Cable Support Algorithm on Nexus 2000 and Nexus 5000 Switches

Starting NX-OS 4.1(3)N2.1 software release, following algorithm is used while detecting SFP+ twinax cables on Nexus 2000 and Nexus 5000 switches:

If attached interconnect (transceiver) is a twinax cable, then verify transceiver SPROM to match Cisco magic code. If the check succeeds then bring up the interface else check whether the Vendor Part Number (PN) has been certified. If the Vendor PN is certified bring up the interface else print a warning message stating that non-Cisco transceiver is attached (shown below) and try to bring up the port.

**2009 Oct 9 01:46:42 switch %ETHPORT-3-IF\_NON-CISCO\_TRANSCEIVER: Non-Cisco transceiver on interface Ethernet1/18 is detected.**

## Cisco Service and Support

If customer has valid support contract for Cisco Nexus switches, Cisco TAC will support twinax cables that are part of compatibility matrix for respective switches. However, if the twinax cables are not purchased through Cisco, customer cannot RMA these cables to Cisco for replacement.

If a twinax cable that is not part of the compatibility matrix is connected into a system, Cisco TAC will still debug the problem provided the customer has valid support contract on the switches. However TAC may ask the customer to replace with Cisco qualified cables if there is a situation that points to cables possibly being faulty or the customer will be redirected to the cable provider for support. Cisco TAC cannot issue an RMA against uncertified cables for replacement.

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For more information about Cisco Nexus Services, visit  
[http://www.cisco.com/en/US/products/ps10405/serv\\_home.html](http://www.cisco.com/en/US/products/ps10405/serv_home.html).

## References

- Cisco Nexus 2000 Series: <http://www.cisco.com/go/nexus2000>
- Cisco Nexus 5000 Series: <http://www.cisco.com/go/nexus5000>
- Cisco 10GE SFP+ Transceivers:  
[http://www.cisco.com/en/US/prod/collateral/modules/ps5455/data\\_sheet\\_c78-455693.html](http://www.cisco.com/en/US/prod/collateral/modules/ps5455/data_sheet_c78-455693.html)
- Cisco NX-OS: <http://www.cisco.com/go/nxos>
- Cisco Nexus Services: [http://www.cisco.com/en/US/products/ps10405/serv\\_home.html](http://www.cisco.com/en/US/products/ps10405/serv_home.html)



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