# Cisco Prisma DWDM Passives

## Product Overview

Facing competitive pressures and rapidly accelerating user demand for interactive services, cable operators need to upgrade their network architectures. These upgrade requirements are pushing optical fiber deeper into the network. But simply replacing existing transmission lines with fiber is no longer the most cost-effective way to handle increasing bandwidth requirements. Operators are now taking advantage of advances in optical filtering that significantly increase the number of signals (or wavelengths) that can be carried on a single fiber, a process known as dDense wavelength-division multiplexing (DWDM).

Cisco[®] Prisma[®] multiplexer and demultiplexer components (Figure 1) are essential when DWDM is implemented to increase network efficiency by significantly reducing fiber counts. Most units are available in the industry-recognized, LGX-compatible form factor to allow easy, snap-in mounting in a variety of enclosures and cabinets. The LGX modules can be used in the same chassis as coupler, splitters, and patching modules to achieve high-density rack configurations. The Cisco Prisma multiplexer and demultiplexer components are also optimized to achieve low insertion loss at all wavelengths. The 40-channel wavelength parts are packaged in standard 1 or 2 RU enclosures that mount in any standard 19-inch equipment rack. A single-channel optical add-drop multiplexer (OADM) is also available in a raw filter package for outside plant applications.

**Figure 1.** Cisco Prisma LGX DWDM (Left), Raw Filter (Top Left), FOSC Basket (Top Right), Rack Mount Enclosure (Bottom Left), and Cassette (Bottom Right)
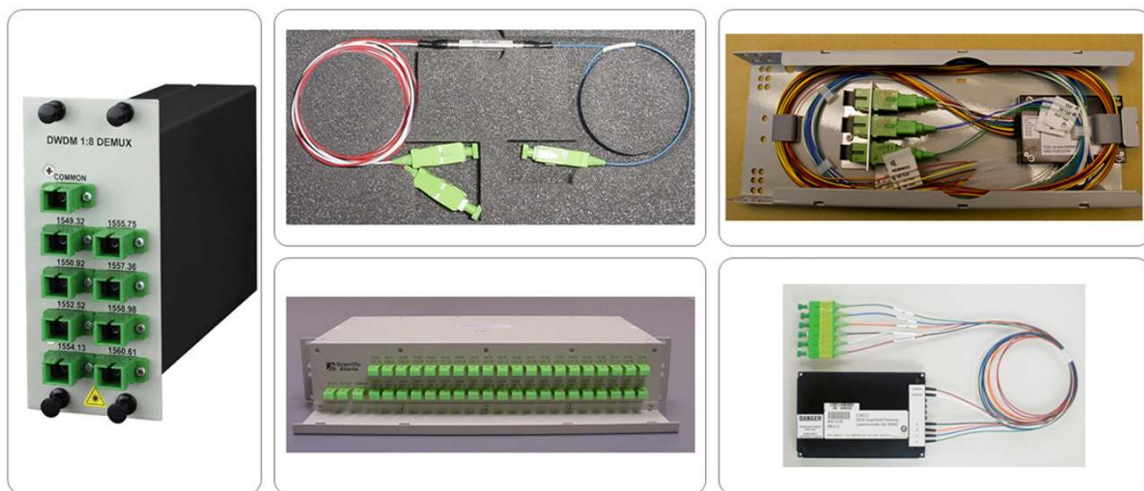
## Features and Benefits

- Cisco Prisma multiplexer and demultiplexer modules (available in 4, 8, 12, 16, 20, and 40-channel configurations)
- Single-channel OADM available for greater design flexibility
- Channels spaced at 100 GHz or 200 GHz, following the standard ITU wavelength grid
- Wavelength mapping options that allow broadcast and narrowcast services to be combined on a single fiber
- Support for both analog and digital forward-path transmission applications, as well as reverse-path transmission applications, such as baseband digital reverse, to significantly increase bidirectional throughput
- Cisco Prisma multiplexer and demultiplexer pairs that are optimized for the lowest combined insertion loss across all wavelengths
- Module for multiplexer and demultiplexer applications
- LGX-compatible modules that easily snap into a wide variety of enclosures and cabinets
- Industry-standard SC/APC or LP/APC adapters that help ensure connector compatibility; reduce back reflection and insertion losses; simplify moves, adds, and changes; and reduce connector maintenance requirements
- LC connector option for 40-channel system to save rack space

## Product Specifications

Table 1 and Table 2 provide product specifications for Cisco Prisma multiplexer and demultiplexer components.

**Table 1.**    Unique Specifications

| Specification | Units | 1 Ch OADM [*] | 4 Ch | 8 Ch | 12 Ch | 16 Ch | 20 Ch | 40 Ch |
|---|---|---|---|---|---|---|---|---|
| **Insertion loss (maximum) 200 GHz** | dB | <1.1 (add or drop) <0.8 (other) | 2.3 | 3.0 | 3.2 | 4.0 | 4.0 | - |
| **Insertion loss (maximum) 100 GHz multiplexer and demultiplexer** | dB | <1.1 (add or drop) <0.8 (other) | - | 3.2 | - | - | - | 4.5 |
| **Isolation (maximum)** | dB | >30 (add or drop) >12 (other) | >30 (adjacent channels) >40 (nonadjacent channels) | | | | | |
| **Dimensions** | | | | | | | | |
| **Depth (maximum)** | in. cm | 6.26 15.9 | 6.26 15.9 | 6.26 15.9 | 6.26 15.9 | 6.26 15.9 | 6.26 15.9 | 11.5 29.2 |
| **Width** | in. cm | 1.15 2.9 | 1.15 2.9 | 2.3 5.8 | 3.45 8.7 | 3.45 8.7 | 4.60 11.7 | 19.0 48.3 |
| **Height** | in. cm | 4.0 10.2 | 4.0 10.2 | 4.0 10.2 | 4.0 10.2 | 4.0 10.2 | 4.0 10.2 | 1.75 or 3.50 4.4 or 8.8 |
| **Faceplate height** | in. cm | 5.1 13.0 | 5.1 13.0 | 5.1 13.0 | 5.1 13.0 | 5.1 13.0 | 5.1 13.0 | |

[*] Single-channel OADM raw filter dimensions Ø 5.5 mm x 36 mm with 900 µm loose tube and with SC/APC connectors.

**Table 2.** General Specifications

| Specification | Units | 200 GHz Specifications | 100 GHz Specifications |
|---|---|---|---|
| Channel bandwidth @ -0.5 dB | nm | $\lambda_c \pm 0.25$ (-5º to 65ºC) | $\lambda_c \pm 0.125$ (-5º to 65ºC) |
| Channel spacing | GHz | 200 | 100 |
| Polarization dependent loss (PDL) | dB | ≤ 0.20 (-5º to 65ºC) | ≤ 0.25 (-5º to 65ºC) |
| Polarization mode dispersion (PMD) | ps | ≤ 0.15 (-5º to 65ºC) | ≤ 0.15 (-5º to 65ºC) |
| Directivity | dB | ≥ 55 | ≥ 55 |
| Optical return loss | dB | ≥ 45 | ≥ 45 |
| Optical connector type | | SC/APC adapters or LC/APC | SC/APC adapters or LC/APC |
| **Environment Specifications** | | | |
| Operating temperature range | ºC | −40 to 65 | −40 to 65 |
| Storage temperature range | ºC | −40 to 80 | −40 to 80 |

**Notes:**

- Losses include input/output and common connector losses.
- Recommended for use in noncondensing environments only.
- Unless otherwise noted, specifications are based on measurements made in accordance with NCTA recommended practices for measurements made on cable systems using standard frequency assignments.

## Warranty Information

Warranty information is available on Cisco.com at the Product Warranties page.

## Ordering Information

To place an order, visit the Cisco Ordering Home Page, and use the information provided in Tables 3 through 6. To download software, visit the Cisco Software Center.

## Ordering Information

**Table 3.** Multiplexer and Demultiplexer Components

| Number of Channels (ITU Grid - 200 GHz Spacing) | LGX Module Width | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 4 (std, ITU ch.21-27) | 1 slot | 4014316 |
| 4 (opt, ITU ch.43-49) | 1 slot | 4014317 |
| 8 (std or Red, ITU ch.21-35, dual test points) | 2 slots | 4006681 |
| 8 (opt, ITU ch.43-47) | 2 slots | 4014318 |
| 8 (Blue, ITU ch.45-59, dual test points) | 2 slots | 4006682 |
| 12 (ITU ch.21-43, dual test points) | 3 slots | 4014319 |
| 16 (ITU ch.21-51, dual test points) | 3 slots | 4006683 |
| 20 (ITU ch.21-59, dual test points) | 4 slots | 254606 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | LGX Module Width | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 4 (ITU ch.20-23) DTP-UG-EXP-LA | 1 slots | 1030044 |
| 4 (ITU ch.23-27) DTP-UG-EXP-LA | 1 slots | 1030045 |
| 4 (ITU ch.28-31) DTP-UG-EXP-LA | 1 slots | 1030046 |
| 4 (ITU ch.32-35) DTP-UG-EXP-LA | 1 slots | 1030047 |
| 4 (ITU ch.36-39) DTP-UG-EXP-LA | 1 slots | 1030048 |
| 4 (ITU ch.40-43) DTP-UG-EXP-LA | 1 slots | 1030049 |
| 4 (ITU ch.44-47) DTP-UG-EXP-LA | 1 slots | 1030050 |
| 4 (ITU ch.48-51) DTP-UG-EXP-LA | 1 slots | 1030051 |
| 4 (ITU ch.52-55) DTP-UG-EXP-LA | 1 slots | 1030052 |
| 4 (ITU ch.56-59) DTP-UG-EXP-LA | 1 slots | 1030053 |
| 4 (ITU ch.20-23) SA | 2 slots | 4039119 |
| 4 (ITU ch.23-27) SA | 2 slots | 4039120 |
| 4 (ITU ch.28-31) SA | 2 slots | 4039121 |
| 4 (ITU ch.32-35) SA | 2 slots | 4039122 |
| 4 (ITU ch.36-39) SA | 2 slots | 4039123 |
| 4 (ITU ch.40-43) SA | 2 slots | 4039398 |
| 4 (ITU ch.44-47) SA | 2 slots | 4039399 |
| 4 (ITU ch.48-51) SA | 2 slots | 4039400 |
| 4 (ITU ch.52-55) SA | 2 slots | 4039401 |
| 4 (ITU ch.56-59) SA | 2 slots | 4039402 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | LGX Module Width | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 8 (ITU ch.20-27) DTP-UG-EXP-LA | 1 slots | 1030034 |
| 8 (ITU ch.28-35) DTP-UG-EXP-LA | 1 slots | 1030035 |
| 8 (ITU ch.36-43) DTP-UG-EXP-LA | 1 slots | 1030036 |
| 8 (ITU ch.44-51) DTP-UG-EXP-LA | 1 slots | 1030037 |
| 8 (ITU ch.52-59) DTP-UG-EXP-LA | 1 slots | 1030038 |
| 8 (ITU ch.25-32) DTP-UG-EXP-LA | 1 slots | 1030179 |
| 8 (ITU ch.33-40) DTP-UG-EXP-LA | 1 slots | 1030180 |
| 8 (ITU ch.16-23) Dual-DTP-LP | 2 slots | 4040757 |
| 8 (ITU ch.25-32) Dual-DTP-LP | 2 slots | 4040758 |
| 8 (ITU ch.34-41) Dual-DTP-LP | 2 slots | 4040759 |
| 8 (ITU ch.43-50) Dual-DTP-LP | 2 slots | 4040760 |
| 8 (ITU ch.52-59) Dual-DTP-LP | 2 slots | 4040761 |
| 8 (ITU ch.16-23) SA | 2 slots | 4004352 |
| 8 (ITU ch.25-32) SA | 2 slots | 4004351 |
| 8 (ITU ch.34-41) SA | 2 slots | 4004350 |
| 8 (ITU ch.43-50) SA | 2 slots | 4004349 |
| 8 (ITU ch.52-59) SA | 2 slots | 4004348 |
| 8 (ITU ch.20-27) SA | 2 slots | 4030116 |
| 8 (ITU ch.28-35) SA | 2 slots | 4030117 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | LGX Module Width | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 8 (ITU ch.36-43) SA | 2 slots | 4030118 |
| 8 (ITU ch.44-51) SA | 2 slots | 4030119 |
| 8 (ITU ch.16-23) DTP-SA | 2 slots | 4036782 |
| 8 (ITU ch.25-32) DTP-SA | 2 slots | 4036783 |
| 8 (ITU ch.34-41) DTP SA | 2 slots | 4036784 |
| 8 (ITU ch.43-50) DTP SA | 2 slots | 4036785 |
| 8 (ITU ch.52-59) DTP SA | 2 slots | 4036786 |
| 8 (ITU ch 25-32) DTP EXP SA | 2 slots | 4041315 |
| 8 (ITU ch 34-41) DTP EXP SA | 2 slots | 4041316 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | LGX Module Width | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 12 (ITU ch.50-61) DTP-UG-EXP-LA | 1 slots | 1030065 |
| 16 (ITU ch.25-40) DTP-UG-EXP-LA | 2 slots | 1030017 |
| 20 (ITU ch.20-39) DTP-UG-EXP-LA | 2 slots | 1030016 |
| 20 (ITU ch.40-59) DTP-UG-EXP-LA | 2 slots | 1030031 |
| 20 (ITU ch.20-39) DTP-SA | 4 slots | 4036787 |
| 20 (ITU ch.40-59) DTP-SA | 4 slots | 4037364 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | FOSC B-Basket | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 4 (ITU ch.20-23) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030054 |
| 4 (ITU ch.23-27) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030055 |
| 4 (ITU ch.28-31) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030056 |
| 4 (ITU ch.32-35) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030057 |
| 4 (ITU ch.36-39) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030058 |
| 4 (ITU ch.40-43) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030059 |
| 4 (ITU ch.44-47) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030060 |
| 4 (ITU ch.48-51) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030061 |
| 4 (ITU ch.52-55) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030062 |
| 4 (ITU ch.56-59) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030063 |
| 8 (ITU ch 20-27) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030039 |
| 8 (ITU ch 28-35) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030040 |
| 8 (ITU ch 36-43) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030041 |
| 8 (ITU ch 44-51) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030042 |
| 8 (ITU ch 52-59) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030043 |
| 8 (ITU ch 25-32) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030181 |
| 8 (ITU ch 33-40) DTP-UG-EXP-SA-NA | Dual DWDM in one FOSC | 1030182 |
| 12 (ITU ch 50-61) DTP-UG-EXP-SA-NA | Single DWDM in one FOSC | 1030066 |
| 16 (ITU ch 25-40) DTP-UG-EXP-SA-NA | Single DWDM in one FOSC | 1030064 |
| 20 (ITU ch 20-39) DTP-UG-EXP-SA-NA | Single DWDM in one FOSC | 1030032 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | FOSC B-Basket | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 20 (ITU ch 40-59) DTP-UG-EXP-SA-NA | Single DWDM in one FOSC | 1030033 |
| 40 (ITU ch 20-59) DTP-UG-EXP-SA-NA | Single DWDM in one FOSC | 1030178 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | Cassette | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 4 (ITU ch.20-23) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030309 |
| 4 (ITU ch.23-27) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030310 |
| 4 (ITU ch.28-31) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030311 |
| 4 (ITU ch.32-35) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030312 |
| 4 (ITU ch.36-39) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030313 |
| 4 (ITU ch.40-43) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030314 |
| 4 (ITU ch.44-47) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030315 |
| 4 (ITU ch.48-51) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030316 |
| 4 (ITU ch.52-55) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030317 |
| 4 (ITU ch.56-59) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030318 |
| 8 (ITU ch 20-27) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030319 |
| 8 (ITU ch 28-35) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030320 |
| 8 (ITU ch 36-43) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030321 |
| 8 (ITU ch 44-51) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030322 |
| 8 (ITU ch 52-59) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030323 |
| 8 (ITU ch 25-32) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030324 |
| 8 (ITU ch 33-40) DTP-UG-EXP-SA-NA | Single DWDM in one Cassette | 1030325 |

| Number of Channels (ITU Grid - 100 GHz Spacing) | Rack Unit Height | Part Numbers Multiplexer and Demultiplexer |
|---|---|---|
| 40 (ITU ch.20-59, dual test points, SC/APC) | 2 RU | 4000698 |
| 40 (ITU ch.16-59, skips 24, 33, 42, 51, LC) | 1 RU | 4004354 |
| 40 (ITU ch 20-59,DTP-UG-EXP-LA) | 1 RU | 1030030 |

**Table 4.**    OADM with DWDM

| Description (100 GHz) | Part Number | Description | Part Number |
|---|---|---|---|
| OADM,LGX-DWDM-ITU-16-SA | 4003543 | OADM,LGX-DWDM-ITU-38-SA | 4003565 |
| OADM,LGX-DWDM-ITU-17-SA | 4003544 | OADM,LGX-DWDM-ITU-39-SA | 4003565 |
| OADM,LGX-DWDM-ITU-18-SA | 4003545 | OADM,LGX-DWDM-ITU-40-SA | 4003565 |
| OADM,LGX-DWDM-ITU-19-SA | 4003546 | OADM,LGX-DWDM-ITU-41-SA | 4003565 |
| OADM,LGX-DWDM-ITU-20-SA | 4003547 | OADM,LGX-DWDM-ITU-42-SA | 4003565 |
| OADM,LGX-DWDM-ITU-21-SA | 4003548 | OADM,LGX-DWDM-ITU-43-SA | 4003570 |
| OADM,LGX-DWDM-ITU-22-SA | 4003549 | OADM,LGX-DWDM-ITU-44-SA | 4003571 |
| OADM,LGX-DWDM-ITU-23-SA | 4003550 | OADM,LGX-DWDM-ITU-45-SA | 4003572 |
| OADM,LGX-DWDM-ITU-24-SA | 4003551 | OADM,LGX-DWDM-ITU-46-SA | 4003573 |
| OADM,LGX-DWDM-ITU-25-SA | 4003552 | OADM,LGX-DWDM-ITU-47-SA | 4003574 |

| Description (100 GHz) | Part Number | Description | Part Number |
|---|---|---|---|
| OADM,LGX-DWDM-ITU-26-SA | 4003553 | OADM,LGX-DWDM-ITU-48-SA | 4003575 |
| OADM,LGX-DWDM-ITU-27-SA | 4003554 | OADM,LGX-DWDM-ITU-49-SA | 4003576 |
| OADM,LGX-DWDM-ITU-28-SA | 4003555 | OADM,LGX-DWDM-ITU-50-SA | 4003577 |
| OADM,LGX-DWDM-ITU-29-SA | 4003556 | OADM,LGX-DWDM-ITU-51-SA | 4003578 |
| OADM,LGX-DWDM-ITU-30-SA | 4003557 | OADM,LGX-DWDM-ITU-52-SA | 4003579 |
| OADM,LGX-DWDM-ITU-31-SA | 4003558 | OADM,LGX-DWDM-ITU-53-SA | 4003580 |
| OADM,LGX-DWDM-ITU-32-SA | 4003559 | OADM,LGX-DWDM-ITU-54-SA | 4003581 |
| OADM,LGX-DWDM-ITU-33-SA | 4003560 | OADM,LGX-DWDM-ITU-55-SA | 4003582 |
| OADM,LGX-DWDM-ITU-34-SA | 4003561 | OADM,LGX-DWDM-ITU-56-SA | 4003583 |
| OADM,LGX-DWDM-ITU-35-SA | 4003562 | OADM,LGX-DWDM-ITU-57-SA | 4003584 |
| OADM,LGX-DWDM-ITU-36-SA | 4003563 | OADM,LGX-DWDM-ITU-58-SA | 4003585 |
| OADM,LGX-DWDM-ITU-37-SA | 4003564 | OADM,LGX-DWDM-ITU-59-SA | 4003586 |

**Table 5.**    OADM Filter

| Description (200 GHz) | Part Number |
|---|---|
| **OADM, Filter, DWDM-ITU-18-SA** | 4033333 |

| Description (100 GHz) | Part Number | Description | Part Number |
|---|---|---|---|
| OADM, Filter, DWDM-ITU-20-SA | 4043801 | OADM, Filter, DWDM-ITU-40-SA | 4043821 |
| OADM, Filter, DWDM-ITU-21-SA | 4043802 | OADM, Filter, DWDM-ITU-41-SA | 4043822 |
| OADM, Filter, DWDM-ITU-22-SA | 4043803 | OADM, Filter, DWDM-ITU-42-SA | 4043823 |
| OADM, Filter, DWDM-ITU-23-SA | 4043804 | OADM, Filter, DWDM-ITU-43-SA | 4043824 |
| OADM, Filter, DWDM-ITU-24-SA | 4043805 | OADM, Filter, DWDM-ITU-44-SA | 4043825 |
| OADM, Filter, DWDM-ITU-25-SA | 4043806 | OADM, Filter, DWDM-ITU-45-SA | 4043826 |
| OADM, Filter, DWDM-ITU-26-SA | 4043807 | OADM, Filter, DWDM-ITU-46-SA | 4043827 |
| OADM, Filter, DWDM-ITU-27-SA | 4043808 | OADM, Filter, DWDM-ITU-47-SA | 4043828 |
| OADM, Filter, DWDM-ITU-28-SA | 4043809 | OADM, Filter, DWDM-ITU-48-SA | 4043829 |
| OADM, Filter, DWDM-ITU-29-SA | 4043810 | OADM, Filter, DWDM-ITU-49-SA | 4043830 |
| OADM, Filter, DWDM-ITU-30-SA | 4043811 | OADM, Filter, DWDM-ITU-50-SA | 4043831 |
| OADM, Filter, DWDM-ITU-31-SA | 4043812 | OADM, Filter, DWDM-ITU-51-SA | 4043832 |
| OADM, Filter, DWDM-ITU-32-SA | 4043813 | OADM, Filter, DWDM-ITU-52-SA | 4043833 |
| OADM, Filter, DWDM-ITU-33-SA | 4043814 | OADM, Filter, DWDM-ITU-53-SA | 4043834 |
| OADM, Filter, DWDM-ITU-34-SA | 4043815 | OADM, Filter, DWDM-ITU-54-SA | 4043835 |
| OADM, Filter, DWDM-ITU-35-SA | 4043816 | OADM, Filter, DWDM-ITU-55-SA | 4043836 |
| OADM, Filter, DWDM-ITU-36-SA | 4043817 | OADM, Filter, DWDM-ITU-56-SA | 4043837 |
| OADM, Filter, DWDM-ITU-37-SA | 4043818 | OADM, Filter, DWDM-ITU-57-SA | 4043838 |
| OADM, Filter, DWDM-ITU-38-SA | 4043819 | OADM, Filter, DWDM-ITU-58-SA | 4043839 |
| OADM, Filter, DWDM-ITU-39-SA | 4043820 | OADM, Filter, DWDM-ITU-59-SA | 4043840 |

**Table 6.**    Related Optical Passives Components

| Related Optical Passive Components | Part Number |
| --- | --- |
| DataLinxs Patch Enclosure (2 RU, LGX-Compatible, 24-position, unloaded) | 750180 |
| DataLinxs Patch Enclosure (3 RU, LGX-Compatible, 48-position, unloaded) | 750181 |
| DataLinxs Patch Enclosure (4 RU, LGX-Compatible, 72-position, unloaded) | 750182 |
| Patch Plate (LGX-Compatible, 6-port, SC/APC adapters) | 750189 |
| Prisma Singlemode Multiband Couplers/Splitters (LGX-Compatible) | See Data Sheet 7001406 |
| Prisma Fixed Optical Attenuators | See Data Sheet 7002298 |

**Table 7.**    ITU Wavelength Map

| ITU Channel | Wavelength (nm) | | Number of Wavelengths | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 200 GHz Spacing | 100 GHz Spacing | 40 ch | 20 ch | 16 ch | 12 ch | 8 ch 100G No Skip | 8 ch 100G Skip 1 | 4 ch 100G No Skip |
| 16 | | 1564.68 | | | | | | X | |
| 17 | 1563.86 | | | | | | | X | |
| 18 | | 1563.05 | | | | | | X | |
| 19 | 1562.23 | | | | | | | X | |
| 20 | | 1561.42 | X | X | | | X | X | X |
| 21 | 1560.61 | | X | X | | | X | X | X |
| 22 | | 1559.79 | X | X | | | X | X | X |
| 23 | 1558.98 | | X | X | | | X | X | X |
| 24 | | 1558.17 | X | X | | | X | | X |
| 25 | 1557.36 | | X | X | X | | X | X | X |
| 26 | | 1556.55 | X | X | X | | X | X | X |
| 27 | 1555.75 | | X | X | X | | X | X | X |
| 28 | | 1554.94 | X | X | X | | X | X | X |
| 29 | 1554.13 | | X | X | X | | X | X | X |
| 30 | | 1553.33 | X | X | X | | X | X | X |
| 31 | 1552.52 | | X | X | X | | X | X | X |
| 32 | | 1551.72 | X | X | X | | X | X | X |
| 33 | 1550.92 | | X | X | X | | X | | X |
| 34 | | 1550.12 | X | X | X | | X | X | X |
| 35 | 1549.32 | | X | X | X | | X | X | X |
| 36 | | 1548.51 | X | X | X | | X | X | X |
| 37 | 1547.72 | | X | X | X | | X | X | X |
| 38 | | 1546.92 | X | X | X | | X | X | X |
| 39 | 1546.12 | | X | X | X | | X | X | X |
| 40 | | 1545.32 | X | X | X | | X | X | X |
| 41 | 1544.53 | | X | X | | | X | X | X |
| 42 | | 1543.73 | X | X | | | X | | X |
| 43 | 1542.94 | | X | X | | | X | X | X |
| 44 | | 1542.14 | X | X | | | X | X | X |
| 45 | 1541.35 | | X | X | | | X | X | X |
| 46 | | 1540.56 | X | X | | | X | X | X |
| 47 | 1539.77 | | X | X | | | X | X | X |
| 48 | | 1538.98 | X | X | | | X | X | X |
| 49 | 1538.19 | | X | X | | | X | X | X |
| 50 | | 1537.40 | X | X | | X | X | X | X |
| 51 | 1536.61 | | X | X | | X | X | | X |

| ITU Channel | Wavelength (nm) | | Number of Wavelengths | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 200 GHz Spacing | 100 GHz Spacing | 40 ch | 20 ch | 16 ch | 12 ch | 8 ch 100G No Skip | 8 ch 100G Skip 1 | 4 ch 100G No Skip |
| 52 | | 1535.82 | X | X | | X | X | X | X |
| 53 | 1535.04 | | X | X | | X | X | X | X |
| 54 | | 1534.25 | X | X | | X | X | X | X |
| 55 | 1533.47 | | X | X | | X | X | X | X |
| 56 | | 1532.68 | X | X | | X | X | X | X |
| 57 | 1531.90 | | X | X | | X | X | X | X |
| 58 | | 1531.12 | X | X | | X | X | X | X |
| 59 | 1530.33 | | X | X | | X | X | X | X |
| 60 | | 1529.55 | | | | X | | | |
| 61 | 1528.77 | | | | | X | | | |

## Cisco Services

Cisco Services help networks, applications, and the people who use them work better together. Today, the network is a strategic platform in a world that demands better integration between people, information, and ideas. The network works better when services, together with products, create solutions aligned with business needs and opportunities. The unique Cisco lifecycle approach to services defines the activities that are needed at each phase of the network lifecycle to help ensure service excellence. With collaborative delivery methods that join Cisco experts, our skilled network of partners, and our customers, we achieve the best results.

## For More Information

Cisco Prisma DWDM Passives products include some of the industry's most complete range of high-performance components. For additional information, please go to:
http://www.cisco.com/en/US/products/ps8981/index.html.

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