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# A EVA6400/8400 cabling diagrams

This appendix contains cabling diagrams for common EVA6400/8400 installation environments. If you plan to configure the EVA6400/8400 with an iSCSI device, see the *HP StorageWorks EVA iSCSI connectivity user guide*. See [Related documentation](#) for the location of this guide.

## Connecting device port Fibre Channel cables to the EVA6400/8400 (rear view)

Depending on your future expansion plans and available racking space, there are two ways to connect EVA6400/8400 controllers to the disk enclosure:

- Configure the controllers above the disk enclosures to maximize racking space
- Configure the controllers in the middle of the disk enclosures to ensure future ease of expansion

The following list describes the labeling and coloring used on the diagrams:

- **DP1-x/DP2-x**—The -A and -B data ports on each controller
- **I/O-x**—The -A and -B I/O modules on each disk enclosure
- **P1/P2**—The ports on the I/O module within each disk enclosure
- **Shelf-x (S-x)**—The numbered label for each disk enclosure in the configuration
- **MP1–MP2 – Jumper Cables**—The black cables used to connect the controllers
- **Yellow numbered labels (01, 02, etc.)**—These labels correspond to the white callout labels along the sides of the diagram and indicate the connection between the controller data port and disk enclosure port on a specific disk enclosure.
- **Top of Loop**—Indicates that the cable connection belongs in the top loop  
**Bottom of Loop**—Indicates that the cable connection belongs in the bottom loop
- **Green and red cables**—The colored cables correspond with the physical cables used to make the connections. Green labeled cables are used on the left side of the configuration; red labeled cables are used on the right side of the configuration.

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 **NOTE:**

As a best practice, ensure the disk enclosures are balanced across the loops.

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For EVA6400 configurations with the controllers *above* the disk enclosures, attach the cables as shown in [Figure 16](#), [Figure 17](#), and [Figure 18](#). For EVA6400 configurations with the controllers *in between* the disk enclosures, attach the cables as shown in [Figure 19](#), [Figure 20](#), and [Figure 21](#).

For EVA8400 configurations with the controllers *above* the disk enclosures, attach the cables as shown in [Figure 22](#), [Figure 23](#), [Figure 24](#), and [Figure 25](#). For EVA8400 configurations with the controllers *in between* the disk enclosures, attach the cables as shown in [Figure 26](#), [Figure 27](#), [Figure 28](#), and [Figure 29](#).

## Connecting EVA6400 controllers above the disk enclosures (2C6D)

Figure 16 shows the connections to loop 1 between the EVA6400 controllers and disk enclosures 1, 2, and 3 (S-1, S-2, and S-3).

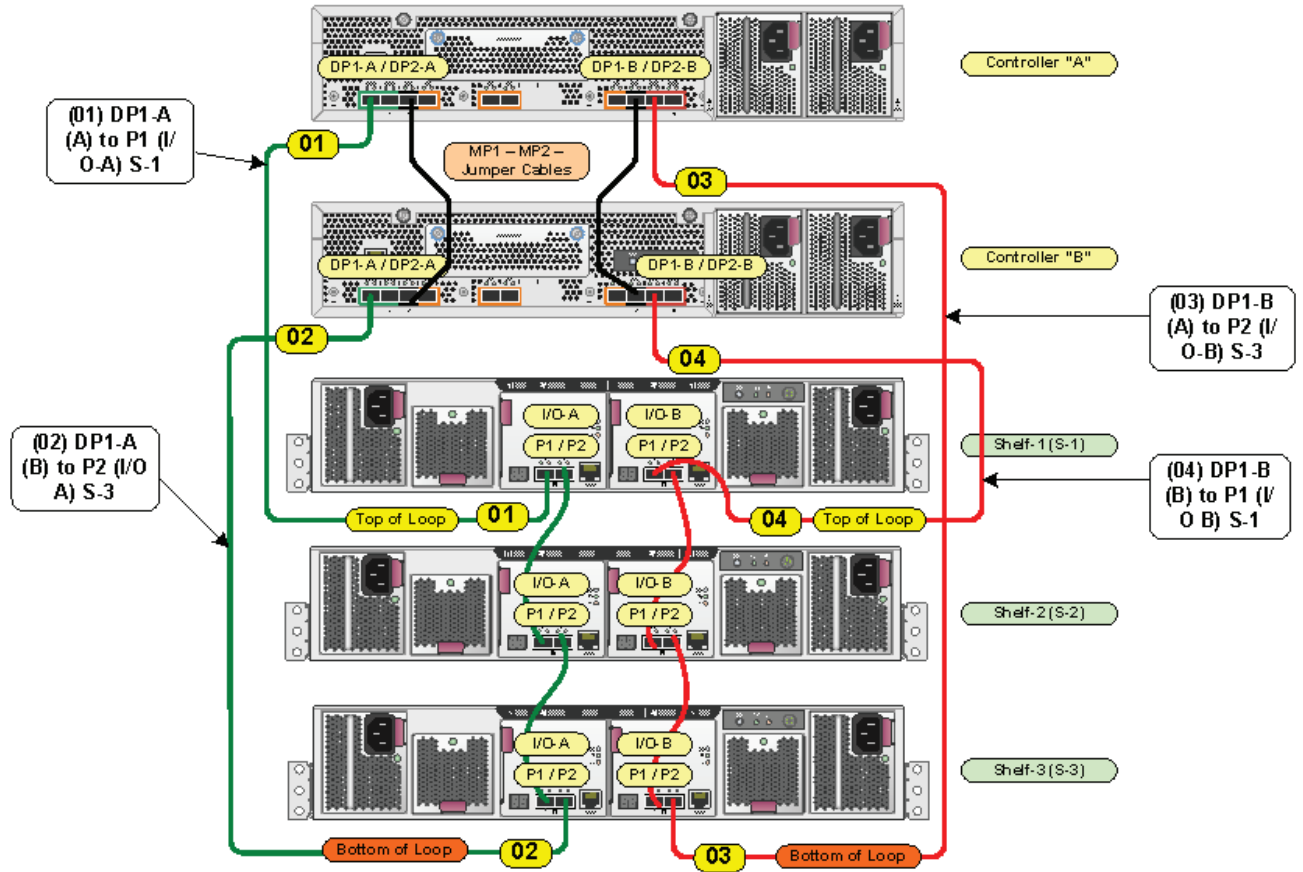


Figure 16 Fibre Channel cabling for the EVA6400 loop 1 connections (rear view, top-mounted controllers)

Figure 17 shows the connections to loop 2 between the EVA6400 controllers and disk enclosures 4, 5, and 6 (S-4, S-5, S-6).

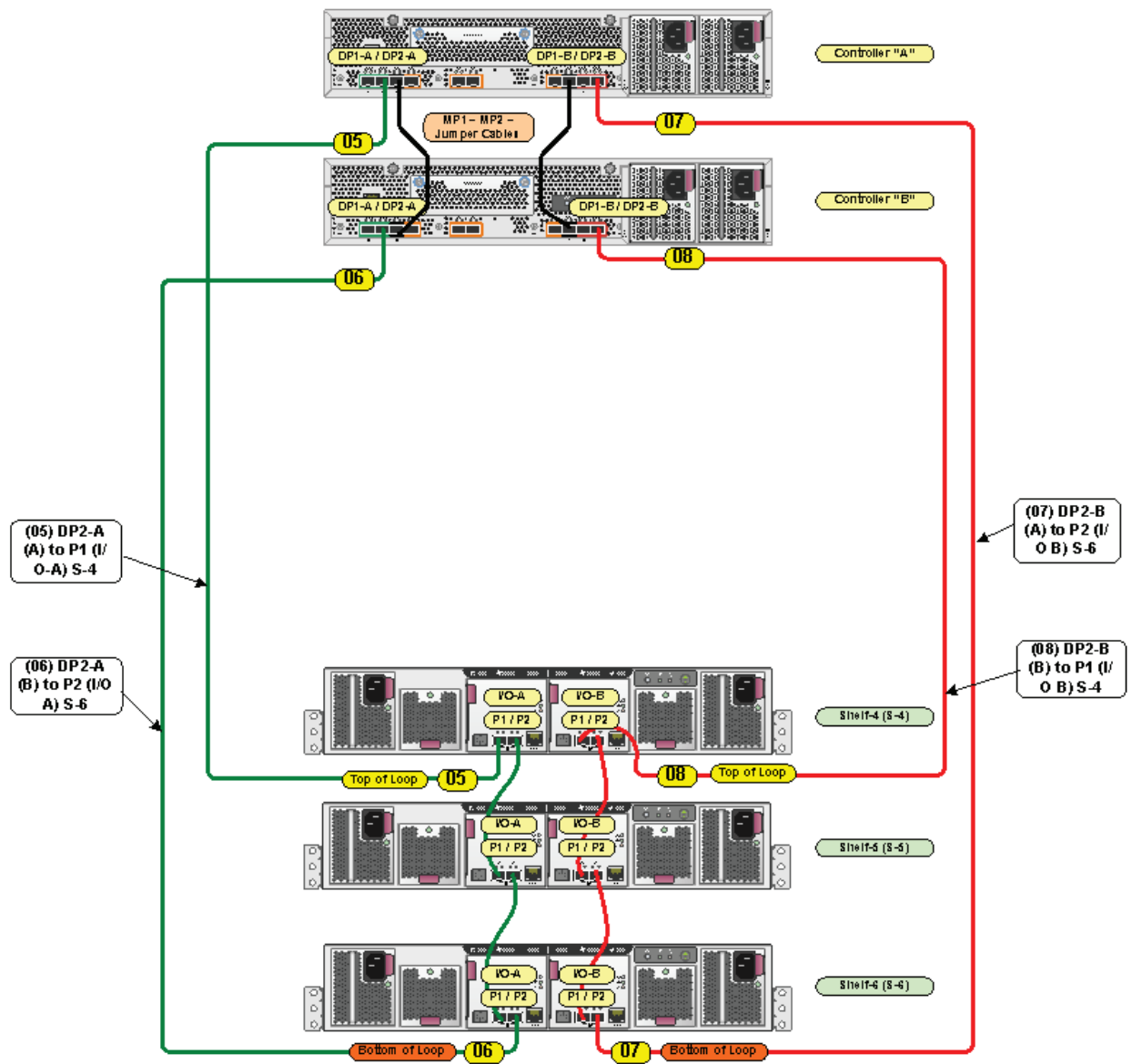


Figure 17 Fibre Channel cabling for the EVA6400 loop 2 connections (rear view, top-mounted controllers)

Figure 18 shows a fully cabled EVA6400 system with two controllers and six disk enclosures (2C6D).

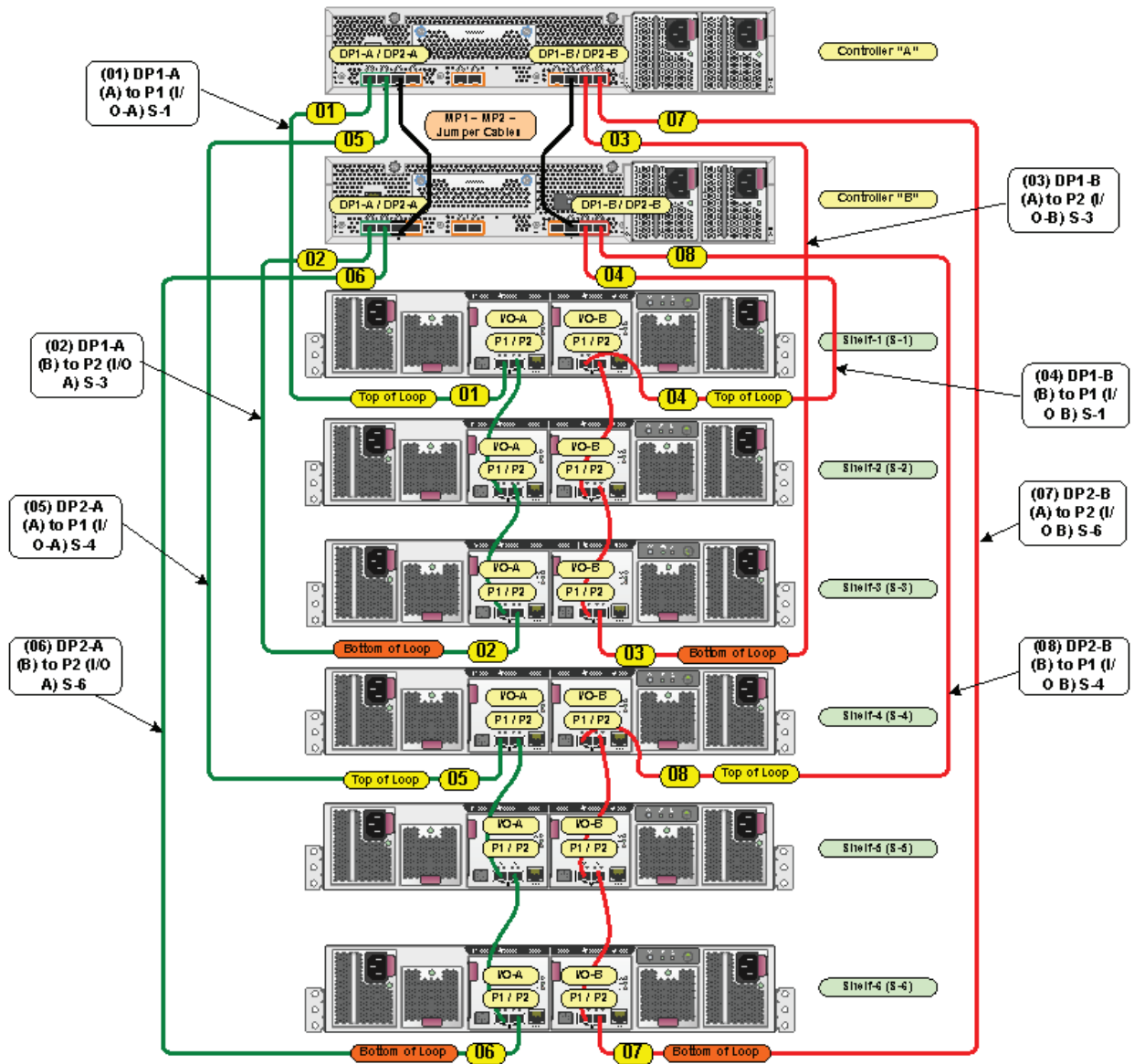


Figure 18 Complete Fibre Channel cabling for the EVA6400 2C6D (rear view, top-mounted controller)

## Connecting EVA6400 controllers between the disk enclosures (2C18D)

Figure 19 shows the connections to loop 1 between the EVA6400 controllers and disk enclosures 1 through 9.

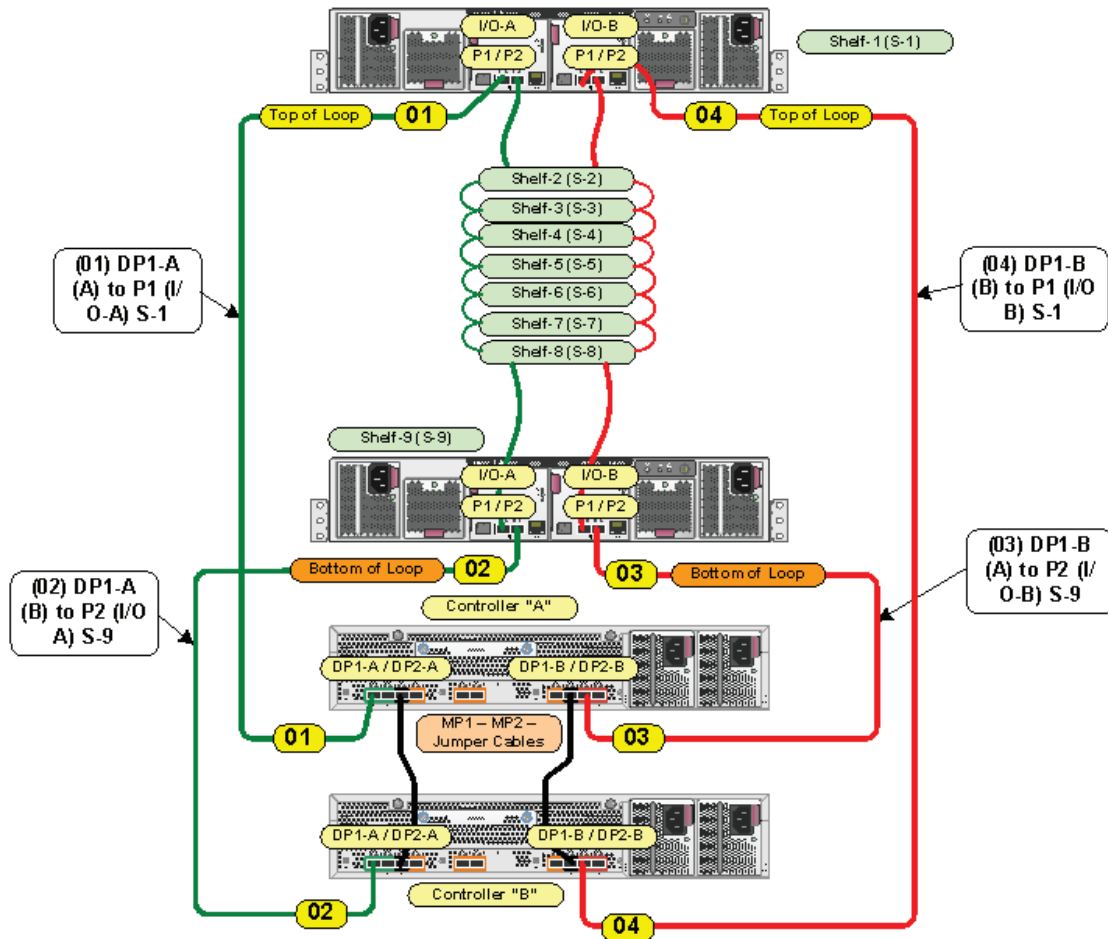


Figure 19 Fibre Channel cabling for the EVA6400 loop 1 connections (rear view, mid-mounted controllers)

Figure 20 shows the connections to loop 2 between the EVA6400 controllers and disk enclosures 10 through 18.

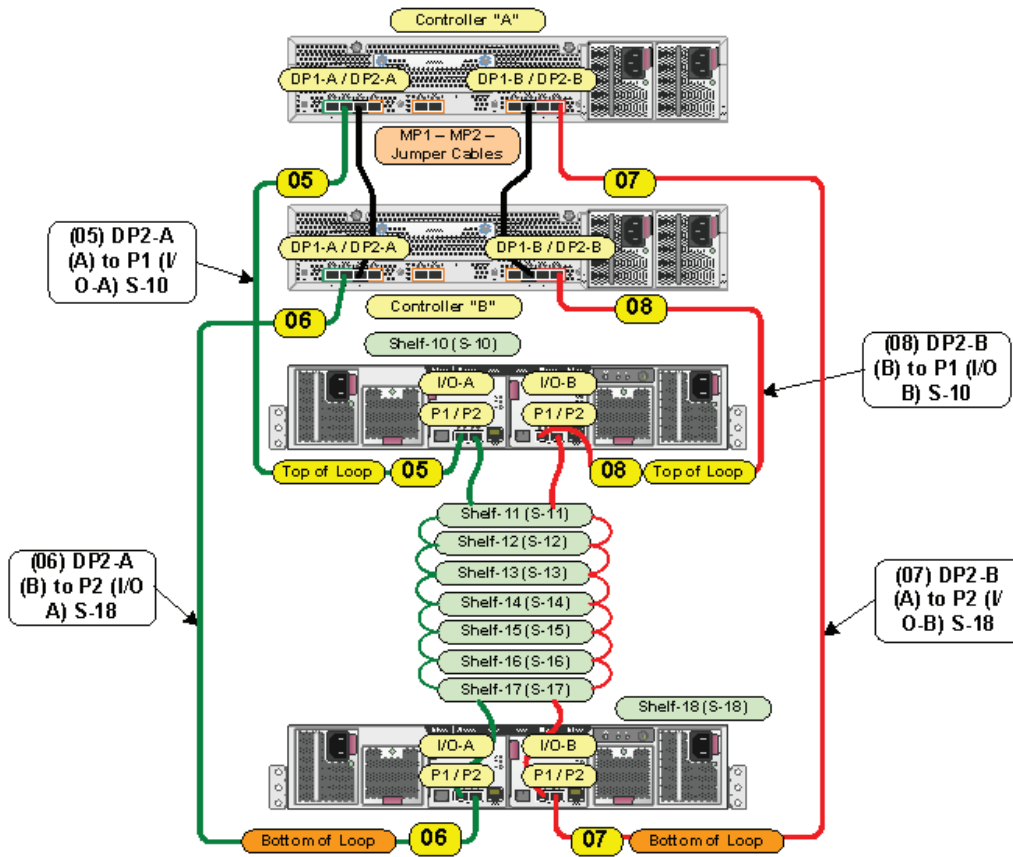


Figure 20 Fibre Channel cabling for the EVA6400 loop 2 connections (rear view, mid-mounted controllers)

Figure 21 shows a fully cabled EVA6400 system with 2 controllers and 18 disk enclosures (2C18D).

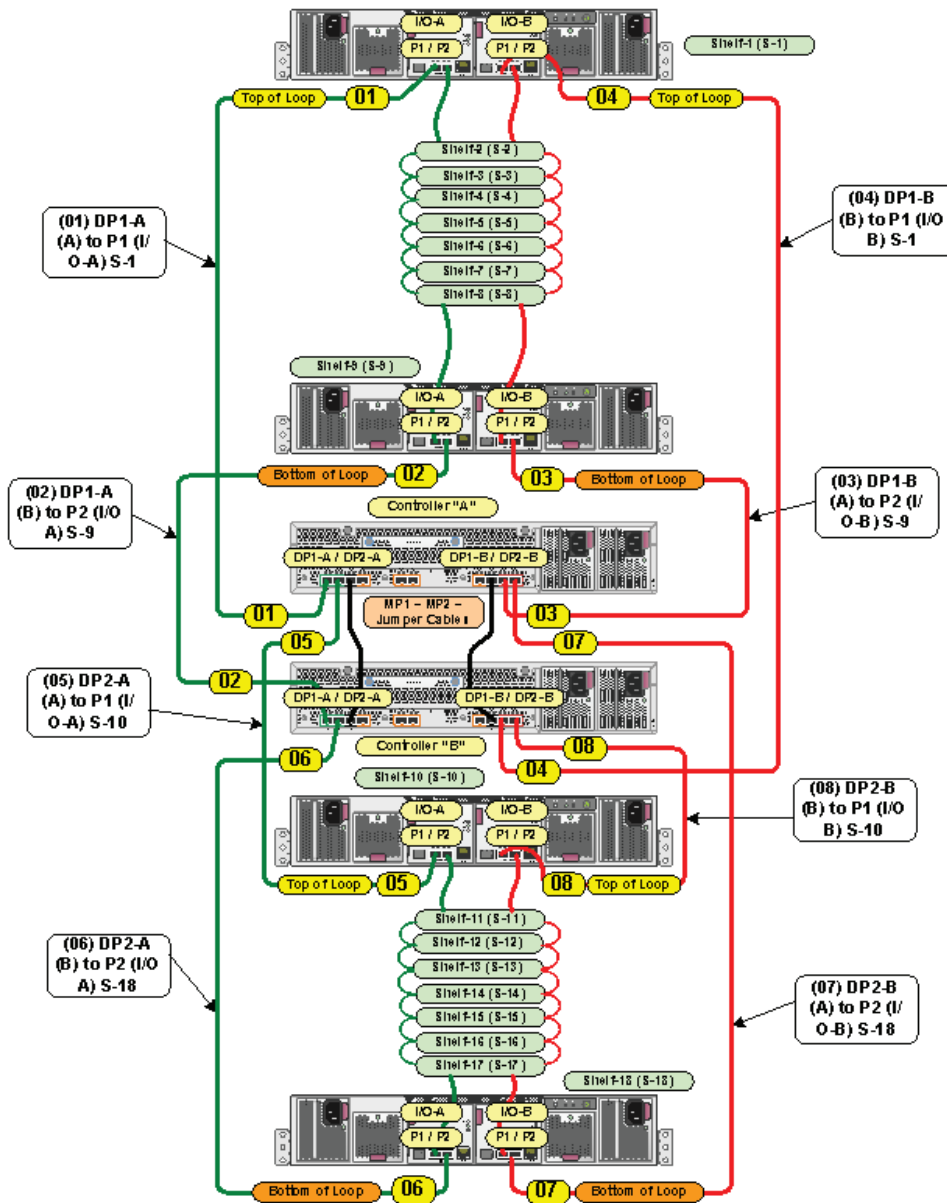


Figure 21 Complete Fibre Channel cabling for EVA6400 2C18D (rear-view, mid-mounted)