

Overview

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HPE InfiniBand NDR Cables QuickSpecs

HPE InfiniBand NDR Cables

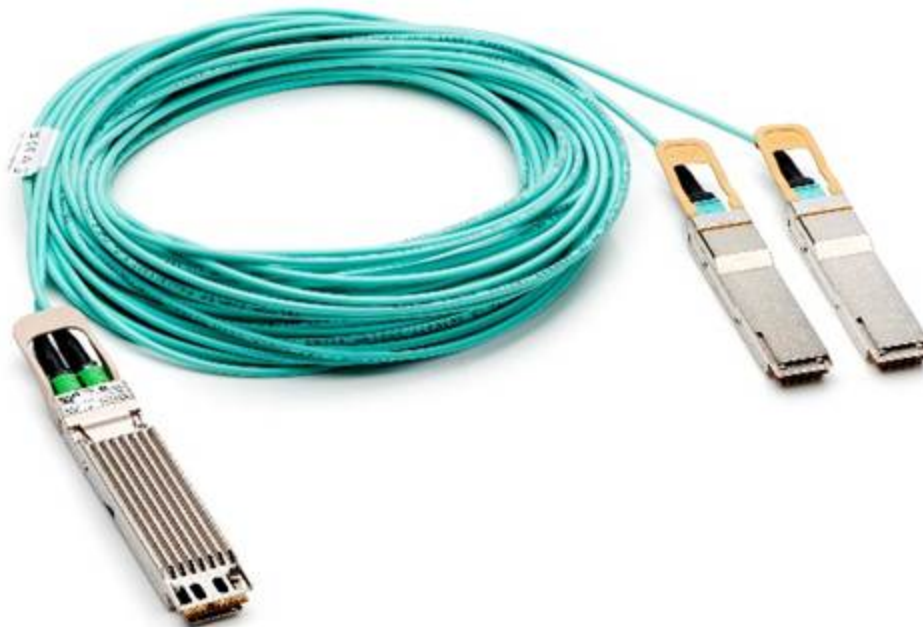
These cables are qualified for InfiniBand and Ethernet enabled.

InfiniBand NDR Direct Attach Copper Cables (DAC) and InfiniBand NDR Active Copper cables (ACC) are the lowest-cost cabling choice to create high-speed, low-latency connections in an InfiniBand NDR solution. These cables are offered in various lengths and as OSFP and QSFP112 types. Passive DACs use copper wires without any electronics as the connection. These cables consume zero power and have the lowest latency and insertion loss. InfiniBand Active Copper Cables include signal-boosting integrated circuits (ICs) in the cable end to extend their reach.

NDR optical interconnect is enabled through NDR transceivers usage with fiber cables. NDR transceivers for switches are dual ported and support two NDR links. NDR transceivers for Host Channel Adapters (HCAs) are single ported. Connection between NDR switches and HDR adapters/switches is enabled with Active Optical Cable (AOC) providing OSFP to dual QSFP. Connection to HDR100 endpoints is not supported with these cables.

*Note that there is no cable option to connect NDR switches to HDR switches currently, but HPE is working with NVIDIA to include the option in the next GA release (Aug 2026).

These cables meet the InfiniBand Trade Association (IBTA) standards and are designed for use in supercomputers that have the most stringent requirements.



Models

InfiniBand Direct Attach Copper Cables

HPE InfiniBand NDR/Ethernet OSFP to OSFP 1 m Switch-Switch Direct Attach Copper Cable

SKU
P45696-B22

HPE InfiniBand NDR/Ethernet OSFP to OSFP 1.5 m Switch-Switch Direct Attach Copper Cable	P45696-B23
HPE InfiniBand NDR200/Ethernet OSFP to 4xOSFP 1 m Splitter Direct Attach Copper Cable	P45698-B22
HPE InfiniBand NDR200/Ethernet OSFP to 4xOSFP 1.5 m Splitter Direct Attach Copper Cable	P45698-B23
HPE InfiniBand NDR200/Ethernet OSFP to 4xOSFP 2.5 m Splitter Direct Attach Copper Cable	P45698-B25
HPE InfiniBand NDR200/Ethernet OSFP to 4xOSFP 3 m Splitter Direct Attach Copper Cable	P45698-B26
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 1 m Splitter Direct Attach Copper Cable	P45697-B22
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 1.5 m Splitter Direct Attach Copper Cable	P45697-B23
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 2 m Splitter Direct Attach Copper Cable	P45697-B24
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 2.5 m Splitter Direct Attach Copper Cable	P45697-B25
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 3 m Splitter Direct Attach Copper Cable	P45697-B26
HPE InfiniBand NDR200/Ethernet OSFP to 4xQSFP112 1 m Direct Attach Copper Cable	P65335-B21
HPE InfiniBand NDR/Ethernet OSFP to 2xQSFP112 1 m Splitter Direct Attach Copper Cable	P70511-B21
HPE InfiniBand NDR/Ethernet OSFP to 2xQSFP112 2 m Splitter Direct Attach Copper Cable	P70511-B22
HPE InfiniBand NDR/Ethernet OSFP to 2xQSFP112 3 m Splitter Direct Attach Copper Cable	P70511-B23

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
- Switch-side transceivers may only be used in NDR switch ports. HCA-side transceivers may only be used in HCA ports
- Multi-mode and single-mode must not be mixed. Multi-mode transceivers must be used with Multi-mode fiber cables. Single-mode transceiver must be used with Single-mode fibers

InfiniBand Active Copper Cables	SKU
HPE InfiniBand NDR/Ethernet OSFP to OSFP 3 m Switch-Switch Active Copper Cable	P55189-B21
HPE InfiniBand NDR/Ethernet OSFP to OSFP 4 m Switch-Switch Active Copper Cable	P55189-B22
HPE InfiniBand NDR/Ethernet OSFP to OSFP 5 m Switch-Switch Active Copper Cable	P55189-B23
HPE InfiniBand NDR200/Ethernet OSFP to 4xOSFP 4 m Splitter Active Copper Cable	P50397-B21
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 4 m Splitter Active Copper Cable	P50396-B21
HPE InfiniBand NDR/Ethernet OSFP to 2xOSFP 5 m Splitter Active Copper Cable	P50396-B22
HPE InfiniBand NDR/Ethernet OSFP to 2xQSFP112 4 m Splitter Active Copper Cable	P70512-B21
HPE InfiniBand HDR/Ethernet OSFP to 2xQSFP56 10 m Splitter Active Optical Cable	P45733-B21
HPE InfiniBand HDR/Ethernet OSFP to 2xQSFP56 10 m Splitter Active Optical Cable	P45733-B22

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
- Switch-side transceivers may only be used in NDR switch ports. HCA-side transceivers may only be used in HCA ports
- Multi-mode and single-mode must not be mixed. Multi-mode transceivers must be used with Multi-mode fiber cables. Single-mode transceiver must be used with Single-mode fibers
- Both OSFP and QSFP112 ends of the cable are based on the CMIS management interface

InfiniBand Single-Mode Optical Transceiver	SKU
HPE InfiniBand NDR/Ethernet 2x400 Gb OSFP Single-mode 100 m Switch-side Transceiver	P45693-B21
HPE InfiniBand NDR/Ethernet 400 Gb OSFP 1-port Single-mode 100 m HCA-side Flat-Top Transceiver	P87585-B21

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
- Switch-side transceivers may only be used in NDR switch ports. HCA-side transceivers may only be used in HCA ports
- Multi-mode and single-mode must not be mixed. Multi-mode transceivers must be used with Multi-mode fiber cables. Single-mode transceiver must be used with Single-mode fibers
- Only supported from switch to switch. There is no switch to HCA support using single-mode fiber.
- These transceivers have MPO-12/APC (Angled Polished Connectors)

InfiniBand Single-Mode Multi Fiber Push On	SKU
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Single-mode 3 m Cable	P45731-B21
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Single-mode 10 m Cable	P45731-B23
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Single-mode 15 m Cable	P45731-B24
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Single-mode 20 m Cable	P45731-B25

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
- Switch-side transceivers may only be used in NDR switch ports. HCA-side transceivers may only be used in HCA ports
- Multi-mode and single-mode must not be mixed. Multi-mode transceivers must be used with Multi-mode fiber cables. Single-mode transceiver must be used with Single-mode fibers
- These cables have MPO-12/ APC (Angled Polished Connectors)

InfiniBand Multimode Optical Transceiver

SKU

HPE InfiniBand NDR/Ethernet 2x400 Gb OSFP Multi-mode 50 m Switch-side Transceiver	P49762-B21
HPE InfiniBand NDR/Ethernet 1x400 Gb OSFP Multi-mode 50 m HCA-side Transceiver	P49764-B21
HPE InfiniBand NDR/Ethernet 400 GbQSFP112 MPO12 850nm Multi-mode 50 m APC Transceiver	P65334-B21
HPE InfiniBand NDR/Ethernet 400 Gb OSFP 1-port Single-mode 100 m HCA-side Flat-Top Transceiver	P87585-B21

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
- Switch-side transceivers may only be used in NDR switch ports. HCA-side transceivers may only be used in HCA ports
- Multi-mode and single-mode must not be mixed. Multi-mode transceivers must be used with Multi-mode fiber cables. Single-mode transceiver must be used with Single-mode fibers
- These transceivers have MPO-12/ APC (Angled Polished Connectors)

InfiniBand Multimode Fiber Push On

SKU

HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 3 m Cable	P49765-B21
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 5 m Cable	P49765-B22
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 10 m Cable	P49765-B23
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 15 m Cable	P49765-B24
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 20 m Cable	P49765-B25
HPE InfiniBand NDR/Ethernet 8 Fiber MPO to 8 Fiber MPO Multi-mode 30 m Cable	P49765-B26
HPE InfiniBand NDR200/Ethernet 8 Fiber MPO to 2x4 Fiber MPO Multi-mode 5 m Splitter Cable	P49766-B22
HPE InfiniBand NDR200/Ethernet 8 Fiber MPO to 2x4 Fiber MPO Multi-mode 10 m Splitter Cable	P49766-B23
HPE InfiniBand NDR200/Ethernet 8 Fiber MPO to 2x4 Fiber MPO Multi-mode 15 m Splitter Cable	P49766-B24
HPE InfiniBand NDR200/Ethernet 8 Fiber MPO to 2x4 Fiber MPO Multi-mode 20 m Splitter Cable	P49766-B25

Notes:

- Switch-Switch cables may only be used to connect between NDR switches. Splitter cables may only be used to connect switches to Host Channel Adapters (HCAs)
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- These cables have MPO-12/ APC (Angled Polished Connectors)

Technical Specifications

For the most up-to-date information on HPE Services, please refer to the [HPE Services - Supplemental QuickSpecs](#), which provides a comprehensive and regularly updated overview of available services.

Environment-friendly Products and Approach End-of-Life Management and Recycling

Hewlett Packard Enterprise offers end-of-life [product return, trade-in, and recycling programs](#), in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the [Hewlett Packard Enterprise web](#) site.

These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
04-May-2026	Version 13	Added	– Added note indicating that a cable option to connect NDR switches to HDR switches is not currently available and that support is planned for a future general availability release. – Added HDR OSFP-to-QSFP56 splitter active optical cable models to reflect currently supported configurations.
		Changed	Updated NDR-to-HDR connectivity description to clarify supported Active Optical Cable (AOC) configurations and to explicitly state that connections to HDR100 endpoints are not supported.
		Removed	Removed obsolete NDR and NDR200 OSFP-based direct attach copper and splitter cable models that are no longer orderable.
19-Jan-2026	Version 12	Changed	QuickSpecs rebranded.
05-Jan-2026	Version 11	Changed	Overview, Standard Features, and Technical Specifications sections were updated.
		Added	New SKU added in Overview section: P87585-B21
12-May-2025	Version 10	Changed	Series name was updated.
02-Dec-2024	Version 9	Changed	Overview section was updated. Series name was updated.
16-Sep-2024	Version 8	Changed	Overview section was updated.
19-Aug-2024	Version 7	Changed	Overview section was updated. Transceivers and Optics sections were updated.
03-Jun-2024	Version 6	Changed	Overview section was updated.
08-Jan-2024	Version 5	Changed	Overview section was updated. HPE Services Rebranding
10-Jul-2023	Version 4	Changed	Overview section was updated.
03-Apr-2023	Version 3	Changed	Overview section was updated.
06-Mar-2023	Version 2	Changed	Overview section was updated.
19-Dec-2022	Version 1	New	QS Created

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