Overview

HPE 25Gb and 100Gb Cables

Platform Information

Models

Recommended
These cables are recommended options that have been selected by HPE experts to provide the right technology for a range of workloads and market segments offering the best combination of performance, value and availability.

HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable	844477-B21
HPE 100Gb QSFP28 to QSFP28 3m Direct Attach Copper Cable	845406-B21

Extended
These cables are part of an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value, but typically have a longer lead-time.

HPE 25Gb SFP28 to SFP28 1m Direct Attach Copper Cable	844474-B21
HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable	845416-B21
HPE 100Gb QSFP28 to QSFP28 1m Direct Attach Copper Cable	845404-B21
HPE 100Gb QSFP28 to QSFP28 5m Direct Attach Copper Cable	845408-B21
HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable	845416-B21

Service and Support

Service and Support	**NOTE: This adapter is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services# need to be purchased.** Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.
Warranty and Support Services	Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over. Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply.
Protect your business beyond warranty with HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support you need for your IT and business. Protect your product, beyond warranty.
Parts and Materials	Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services. The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.
For more information	Visit the Hewlett Packard Enterprise Service and Support **website**.

Technical Specifications

HPE 25Gb SFP28 to SFP28 1m Direct Attach Copper Cable (844474-B21)	Connectivity	Length	3.28 ft. (1 m)
	Physical characteristics	**Weight**	0.15 lb. Fully loaded the cable with a SFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties

- Cable Characteristic Impedance: 90-110 # Time delay: 4.5 ns/m

Physical Properties

- Cable Diameter: 4.5 +/-0.2 mm
- Minimum Cable Bend Radius: Single bend: 23mm; Repeated bend: 45mm

HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable (844477-B21)	Connectivity	Length	9.84 ft. (3 m)
	Physical characteristics	**Weight**	0.30 lb. Fully loaded the cable with a SFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties

- Cable Characteristic Impedance: 90-110 # Time delay: 4.5 ns/m

Physical Properties

- Cable Diameter: 4.5 +/-0.2 mm
- Minimum Cable Bend Radius: Single bend: 23mm; Repeated bend: 45mm

HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable (844480)	Connectivity	Length	16.4 ft. (5 m)
	Physical characteristics	**Weight**	0.46 lb. Fully loaded the cable with a SFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)

Technical Specifications

		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties

- Cable Characteristic Impedance: 90-110 # Time delay: 4.5 ns/m

Physical Properties

- Cable Diameter: 4.5 +/-0.2 mm
- Minimum Cable Bend Radius: Single bend: 23mm; Repeated bend: 45mm

HPE 100Gb QSFP28 to QSFP28 1m Direct Attach Copper Cable (845404-B21)	**Connectivity** **Physical characteristics**	**Length** **Weight**	3.28 ft. (1 m) 0.27 lb. Fully loaded the cable with a QSFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties

- Cable Characteristic Impedance: 110 # Time delay: 4.5 ns/m

Physical Properties

- Cable Diameter: 8.8 +/-0.3 mm
- Minimum Cable Bend Radius: 45mm

HPE 100Gb QSFP28 to QSFP28 3m Direct Attach Copper Cable (845406-B21)	**Connectivity** **Physical characteristics**	**Length** **Weight**	9.84 ft. (3 m) 0.66 lb. Fully loaded the cable with a QSFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)

Technical Specifications

		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties
- Cable Characteristic Impedance: 110 # Time delay: 4.5 ns/m

Physical Properties
- Cable Diameter: 8.8 +/-0.3 mm
- Minimum Cable Bend Radius: 45mm

HPE 100Gb QSFP28 to QSFP28 5m Direct Attach Copper Cable (845408-B21)	**Connectivity**	**Length**	16.4 ft. (5 m)
	Physical characteristics	**Weight**	1.15 lb. Fully loaded the cable with a QSFP28 transceiver at each end of the cable
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	**Power consumption**	0.1 watts maximum

Electrical Properties
- Cable Characteristic Impedance: 110 # Time delay: 4.5 ns/m

Physical Properties
- Cable Diameter: 8.8 +/-0.3 mm
- Minimum Cable Bend Radius: 45mm

HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable (845416-B21)	**Connectivity**	**Length**	9.84 ft. (3 m)
	Physical characteristics	**Weight**	1.26 lb. Fully loaded the cable with a QSFP28 transceiver at one end and four SFP28 transceivers at the other end
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-20ºC to 85ºC)
		Non-operating/ Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	**Power consumption**	0.1 watts maximum

Technical Specifications

	Notes	Electrical Properties
		• Cable Characteristic Impedance: 110 # Time delay: 4.5 ns/m
		Physical Properties
		• Cable Diameter: 8.8 ± 0.3 mm; 4.5 +/-0.2 mm
		• Minimum Cable Bend Radius: 45mm

Operating System and Virtualization Support

The Operating Systems supported by this adapter are based on the server OS support. Please refer to the OS Support Matrix at **https://www.hpe.com/us/en/servers/server-operating-systems.html**.

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
5-Feb-2018	Version 2	Changed	Technical Specifications section was updated
06-Jun-2015	Version 1	Changed	QuickSpecs name changed from "HPE BladeSystem c-Class 40G QSFP+ to QSFP+ Active Optical Cable" to "HPE BladeSystem c-Class 40G QSFP + Active Optical Cables" Overview, Technical Specification sections were updated
		Added	SKUs added on models section: 721070-B21, 721073-B21, 721076-B21.

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