Volex 800G OSFP Active

Electrical Cable

Volex's 800G OSFP active electrical Direct Attach Cable features 8 transmitting and 8 receiving 100Gbps PAM-4 channels. The cable assembly meets OSFP 800G MSA and IEEE 802.3ck specifications. The signal integrity severely stressed under high-speed data transmission is enhanced via advanced DSP equalization. The result is longer reach up to 5M with smallest cable size and highest flexibility. The result is a highly flexible DAC cable which reduces the overall bend space up to 30% vs the passive version, making it ideal for deployment in high density rack.

As next-gen data centers deploy faster speed in a tighter space, they need high performance cables that reduce power consumption, provide reliable operation and are low cost. Volex's 800G QSFP active electrical Cable is designed to meet the next-gen data center needs and is a cost effective alternative to the high-power consumption Active Optical Cable.



Low power consumption and heat dissipation

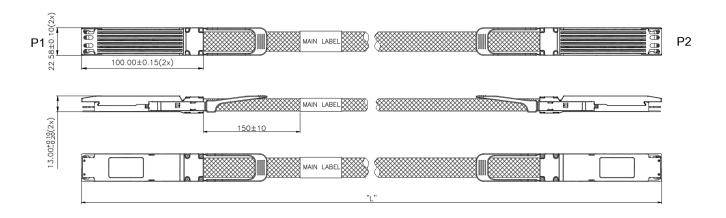


Complete cable assembly uniquely terminated at the factory to provide the most reliable operation



	FEATURES AND SPECIFICATIONS		
Product Type	OSFP 800G active electrical cable assembly		
Conductor Treatment	Laser stripped conductors		
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms		
Cable Colour	Black		
Cable Jacket	Plastic braided mesh		
Packaging	PE bag		
Power Supply Voltage	.3V		
Power Consumption	12W per active module(8 channels)		
Temperature Range	emperature Range 0 - 70°C		
Retention Force Minimum 125N per MSA specification			
Insertion Force	Maximum 40N per MSA specification		
EEPROM	CMIS 5.0 compliance		
Cable Termination	100% factory tested including comprehensive signal integrity verification and serial number traceability using advanced Manufacturing Execution Systems		
Volex reserves the right t	to change specifications and availability without prior notice.		

Applications	Standards Compliance
 Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	 IEEE 802.3ck, InfiniBand NDR Specification for OSFP, Rev 5.0 CMIS 5.0 EIA-364 UL 94, 1581, VW1, File No. E510564 ROHS



Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
DE62BDG10BE	1.00	32AWG	7.3
DE62BDG20BE	2.00	32AWG	7.3
DE62BDG30BE	3.00	32AWG	7.3
DE68BDG50BE	5.00	28AWG	10.6

1.0 – 5.0m lengths available with 32AWG-28AWG conductor sizes to achieve maximum performance.

Options Available

Custom colours for cable jacket Custom colours for pull tab Custom EEPROM mapping

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Contact us at **sales@volex.com** for assistance in finding the right solution for your needs.

Volex QSFP-DD 800G Active

Electrical Cable

Volex's QSFP-DD 800G Active Electrical Cable features 8 transmitting and 8 receiving 100Gbps PAM4 channels for 800G operation. The cable assembly meets IEEE 802.3ck 400GBase-CR4, 200Gbase-CR2 and 100GBase-CR1 standard with substantial signal integrity margin providing high performance and bandwidth interconnect solutions for high-density applications. The signal integrity, severely stressed under high-speed data transmission, is enhanced via advanced DSP equalization.

The result is longer reach up to 5M with smallest cable size and highest flexibility. The result is a highly flexible DAC cable which reduces the overall bend space up to 30% vs the passive version, making it ideal for deployment in high density rack.

As next-gen data centers deploy faster speed in a tighter space, they need high performance cables that reduce power consumption, provide reliable operation and are low cost. Volex's QSFP-DD Active Electric Cable is designed to meet the next-gen data center needs and is a cost-effective alternative to the high-power consumption Active Optical Cable.



Low power consumption and heat dissipation

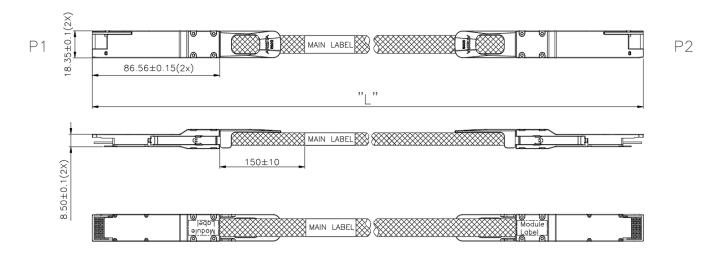


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	FEATURES AND SPECIFICATIONS				
Product Type	QSFP-DD 800G active electrical cable assembly				
Conductor Treatment	Laser stripped conductors				
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms				
Cable Colour	Black				
Cable Jacket	Plastic braided mesh				
Packaging	PE bag				
Power Supply Voltage	.3V				
Power Consumption	I4W per active module(8 channels)				
Temperature Range	0 - 70°C				
Retention Force Minimum 125N per MSA specification					
Insertion Force	Maximum 90N per MSA specification				
EEPROM	CMIS 5.2 compliance				
Cable Termination	100% factory tested including comprehensive signal integrity verification and serial number traceability using advanced Manufacturing Execution Systems				
Volex reserves the right to change specifications and availability without prior notice.					

Applications	Standards Compliance
 Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	 IEEE 802.3ck, Infiniband NDR QSFP-DD/QSFP-DD800/QSFP112 HW Rev 6.3 CMIS 5.2 EIA-364 UL 94, 1581, VW1, File No. E510564 RoHS



Arista P/N	Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
CBL-10607-50	DQ62BDR10BE	1.00	32AWG	7.3
CBL-10608-50	DQ62BDR20BE	2.00	32AWG	7.3
CBL-10609-50	DQ62BDR30BE	3.00	32AWG	7.3
CBL-10610-50	DQ68BDR50BE	5.00	28AWG	10.6

1.0 – 5.0m lengths available with 32AWG-28AWG conductor sizes to achieve maximum performance.

Options Available

Custom colours for cable jacket Custom colours for pull tab Custom EEPROM mapping

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Volex 800G OSFP TO 2X Q112 AEC Y-CABLE



Volex's 800G OSFP TO 2X Q112 AEC Y cable assembly offers a non-typical "Y" type breakout. This breakout cable supports 8 lanes of 112G PAM4 signal in each direction, and provides a breakout function to 2x400G QSFP112 connectors with software selectable 4x112G operation. The signal integrity, severely stressed under high-speed data transmission, is enhanced via advanced DSP equalization. The result is longer reach up to 5M with smallest cable size and highest flexibility.

Volex's 800G OSFP TO 2X Q112 AEC Y cable assembly are high performance and high bandwidth interconnect solutions. It is designed for applications in data centers, networking and telecommunication market which require high speed and reliable cable assemblies.



Low power consumption and heat dissipation

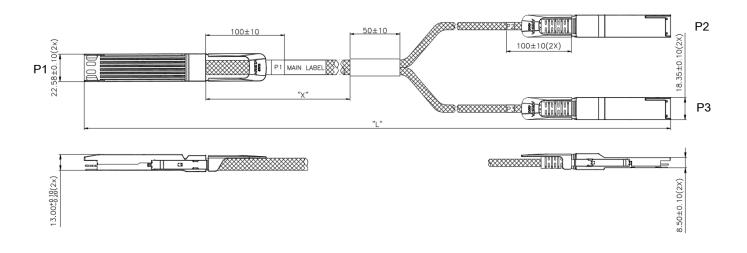


Complete cable assembly uniquely terminated at the factory to provide the most reliable operation



	FEATURES AND SPECIFICATIONS		
Product Type	800G PAM4 OSFP TO 2x Q112 AEC Y CABLE assembly		
Conductor Treatment	Laser stripped conductors		
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms		
Cable Colour	Black		
Cable Jacket	Plastic braided mesh		
Packaging	PE bag		
Power Supply Voltage	3.3V		
Power Consumption	14W per OSFP module(8 channels), <8W per Q112 module(4 channels),		
Temperature Range	0 - 70°C		
Retention Force	Minimum 125N per MSA specification		
Insertion Force	Maximum 40N per MSA specification		
EEPROM	CMIS 5.2 compliance		
Cable Termination	100% factory tested including comprehensive signal integrity verification and serial number traceability using advanced Manufacturing Execution Systems		
Volex reserves the right to change specifications and availability without prior notice.			

Applications	Standards Compliance
 Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	 IEEE 802.3ck, Infiniband NDR OSFP MSA Rev 5.0 /SFF-8665, SFF-8661, SFF-8472, SFF-8636, SFF-8679 CMIS 5.2 EIA-364 UL 94, 1581, VW1, File No. E510564, RoHS



Arista P/N	Volex P/N	Cable Length (m)	Cable Gauge (AWG)	OSFP Cable OD (mm)	Q112 Cable OD (mm)
CBL-10611-50	DG62BDR10BE	1.00	32AWG	7.3	5.3
CBL-10612-50	DG62BDR20BE	2.00	32AWG	7.3	5.3
CBL-10613-50	DG62BDR30BE	3.00	32AWG	7.3	5.3
CBL-10614-50	DG68BDR50BE	5.00	28AWG	10.6	7.6

1.0 – 5.0m lengths available with 32AWG-28AWG conductor sizes to achieve maximum performance.

Options Available

Custom colours for cable jacket Custom colours for pull tab Custom EEPROM mapping

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Volex 800G QSFP-DD TO 2X Q112 AEC Y-CABLE



Volex's 800G QSFP-DD TO 2X Q112 AEC Y cable assembly offers a non-typical "Y" type breakout. This breakout cable supports 8 lanes of 112G PAM4 signal in each direction, and provides a breakout function to 2x400G QSFP112 connectors with software selectable 4x112G operation. The signal integrity, severely stressed under high-speed data transmission, is enhanced via advanced DSP equalization. The result is longer reach up to 5M with smallest cable size and highest flexibility.

Volex's 800G QSFP-DD TO 2X Q112 AEC Y cable assembly are high performance and high bandwidth interconnect solutions. It is designed for applications in data centers, networking and telecommunication market which require high speed and reliable cable assemblies.



Low power consumption and heat dissipation

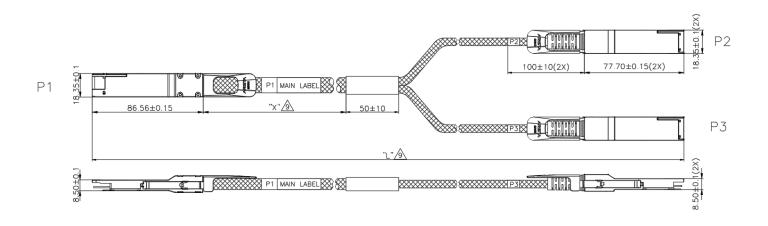


Complete cable assembly uniquely terminated at the factory to provide the most reliable operation



FEATURES AND SPECIFICATIONS						
Product Type	800G PAM4 QSFPDD TO 2x Q112 AEC Y CABLE assembly					
Conductor Treatment	tor Treatment Laser stripped conductors					
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms					
Cable Colour	Cable Colour Black					
Cable Jacket	Plastic braided mesh					
Packaging	PE bag					
Power Supply Voltage	3.3V					
Power Consumption	<14W per QSFP-DD module(8 channels), <8W per Q112 module(4 channels),					
Temperature Range	0 - 70°C					
Retention Force	>90N for QSFP; >125N for QSFP-DD					
Insertion Force	<60N for QSFP; < 90N for QSFP-DD					
EEPROM	CMIS 5.2 compliance					
Cable Termination	100% factory tested including comprehensive signal integrity verification and serial number traceability using advanced Manufacturing Execution Systems					
Volex reserves the right to change specifications and availability without prior notice.						

Applications		Standards Compliance			
•	Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment		IEEE 802.3ck, Infiniband NDR QSFP-DD HW 6.3/SFF-8665, SFF-8661, SFF-8472, SFF- 8636, SFF-8679 CMIS 5.2 EIA-364 UL 94, 1581, VW1, File No. E510564, RoHS		



Arista P/N	Volex P/N	Cable Length (m)	Cable Gauge (AWG)	QSFP-DD Cable OD (mm)	Q112 Cable OD (mm)
CBL-10615-50	DT62BDR10BE	1.00	32AWG	7.3	5.3
CBL-10616-50	DT62BDR20BE	2.00	32AWG	7.3	5.3
CBL-10617-50	DT62BDR30BE	3.00	32AWG	7.3	5.3
CBL-10618-50	DT68BDR50BE	5.00	28AWG	10.6	7.6

1.0 – 5.0m lengths available with 32AWG-28AWG conductor sizes to achieve maximum performance.

Options Available

Custom colours for cable jacket Custom colours for pull tab Custom EEPROM mapping

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