

Volex 800G OSFP TO 2x/4x Q112 ACC Breakout Cable



Volex's 800G OSFP to 2x/4x QSFP112 ACC breakout cable features 8 100Gbps channels with PAM-4 modulation for each of the transmitting and receiving directions. The breakout cable is offered in an 800Gbps (OSFP) to 2x 400Gbps (2x QSFP112) or 4x 200Gbps (4x QSFP112) configurations. The cable assembly meets IEEE 802.3ck 800GBase-CR8, 400GBase-CR4, 200GBase-CR2 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 linear equalization. The result is longer reach up to 5M vs 2M for the passive version with the same unique dielectric material and cable construction that offers the 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.



Low power consumption and heat dissipation



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



100% tested for signal integrity with serial number traceability

FEATURES AND SPECIFICATIONS

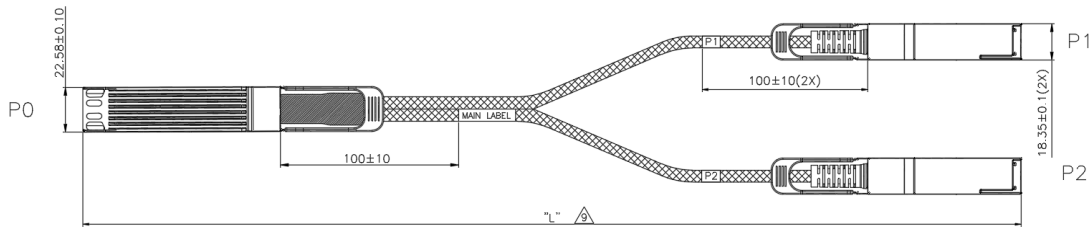
Product Type	800G OSFP TO 2x 400G (2x Q112) or 4x200G (4x Q112) ACC breakout cable assembly
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	Plastic braided mesh
Packaging	PE bag
Power Supply Voltage	3.3V
Power Consumption	<150mW per active channel
Temperature Range	0 - 70°C
Retention Force	>90N for QSFP; >125N for OSFP
Insertion Force	<60N for QSFP; < 40N for OSFP
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 to change specifications and availability without prior notice.

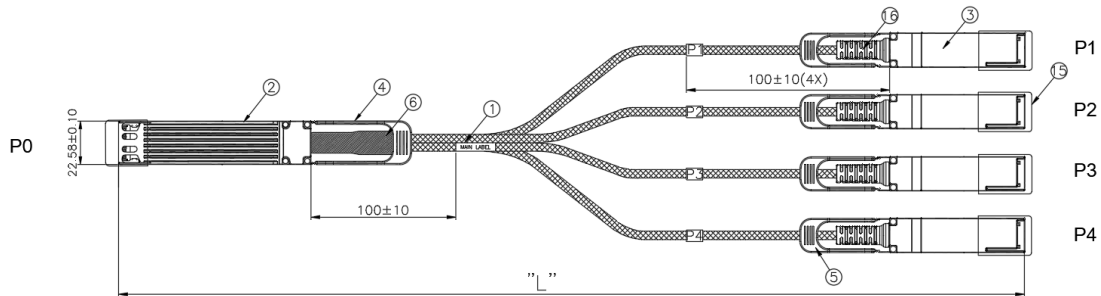
Applications	Standards Compliance
<ul style="list-style-type: none"> Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	<ul style="list-style-type: none"> IEEE 802.3ck OSFP MSA Rev 5.0 /SFF-8665, SFF-8661, SFF-8636, SFF-8679 CMIS 5.0 EIA-364 UL 94, 1581, VW1, File No. E510564, RoHS

Mechanical Drawing

OSFP to 2x QSFP112 Breakout Configuration



OSFP to 4x QSFP112 Breakout Configuration



Volex P/N (OSFP TO 2x Q112)	Volex P/N (OSFP TO 4x Q112)	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm) (2x/4x)
DG60BDG10BA	DK60BDG10BA	1.00	30AWG	6.5/5.2
DG60BDG20BA	DK60BDG20BA	2.00	30AWG	6.5/5.2
DG60BDG30BA	DK60BDG30BA	3.00	30AWG	6.5/5.2
DG66BDG40BA	DK66BDG40BA	4.00	26AWG	8.0/6.8
DG66BDG50BA*	DK66BDG50BA*	5.00	26AWG	8.0/6.8

1–5m lengths available with 30AWG-26AWG conductor sizes to achieve maximum performance.

Options Available

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

* Cables are pending final qualification. Length listed above are preliminary.

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for assistance in finding the right solution for your needs.