

Volex 800G OSFP to 2x/4x Q112 AEC Breakout CABLE



Volex's 800G OSFP to 2x/4x Q112 AEC breakout cable assembly 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 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/4x Q112 AEC breakout 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



100% tested for signal integrity with serial number traceability

FEATURES AND SPECIFICATIONS

Product Type	800G OSFP to 2x/4x Q112 AEC 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	<12W per OSFP module(8 channels), <8W per Q112 module(4 channels),
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

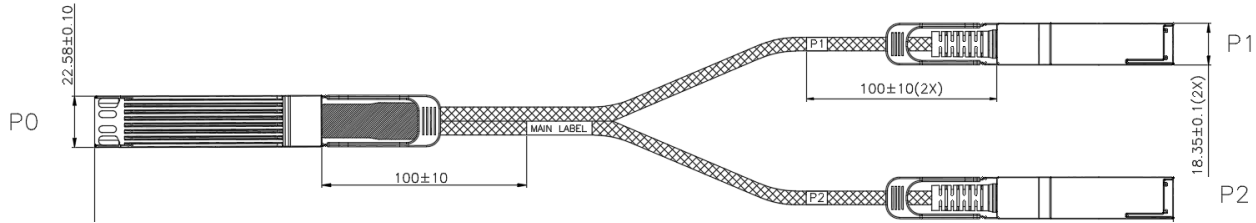
Volex reserves the right to change specifications and availability without prior notice.

High-Speed Interconnect

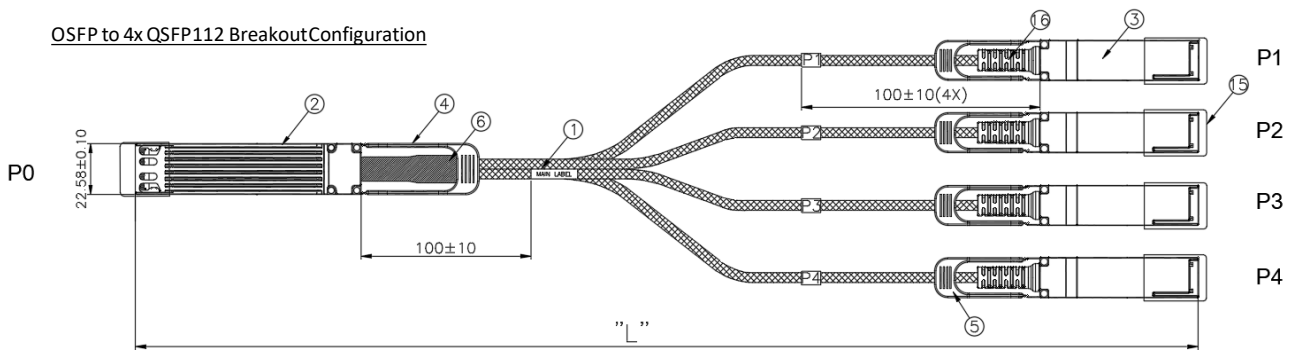
Applications	Standards Compliance
<ul style="list-style-type: none"> Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	<ul style="list-style-type: none"> IEEE 802.3ck, Infiniband NDR OSFP MSA Rev 5.0 /SFF-8665, 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)
DG62BDG10BE	DK62BDG10BE	1.00	32AWG	5.3/4.6
DG62BDG20BE	DK62BDG20BE	2.00	32AWG	5.3/4.6
DG62BDG30BE	DK62BDG30BE	3.00	32AWG	5.3/4.6
DG68BDG50BE	DK68BDG50BE	5.00	28AWG	7.6/5.8

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

Volex Worldwide CONTACT INFO		
<p>Americas Tel: +1 512 608 2402</p>	<p>EMEA Tel: +44 7768 924844</p>	
<p>China Tel: +86 159 5019 6906</p>	<p>Asia Pacific Tel: +65 6904 1545</p>	<p>India Tel: +91 99406 10637</p>

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