

# Volex 800G OSFP TO 2x/4x Q112 Passive DAC Breakout Cable



Volex's 800G OSFP to 2x/4x QSFP112 passive 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 and Infiniband NDR standard with substantial signal integrity margin providing high performance and bandwidth interconnect solutions for high-density applications.



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. This breakout cable assembly is designed to meet the next-gen data center needs offering smallest cable outer diameter and bend radius and highest flexibility while meeting or exceeding the MSA signal integrity specification.



Near zero power consumption and no heat generated



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

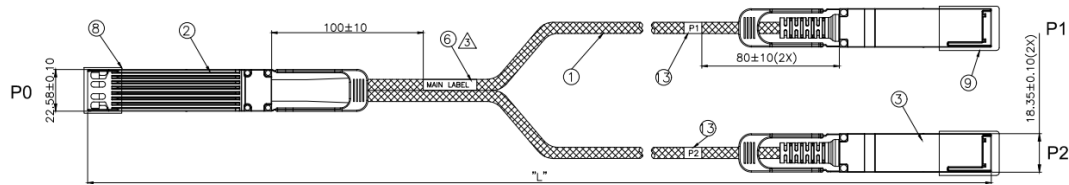
<b>Product Type</b>	800G OSFP TO 2x 400G (2x Q112) or 4x200G (4x Q112) passive breakout cable assembly
<b>Conductor Treatment</b>	Laser stripped conductors
<b>Cable Type</b>	High speed twinax cable, 16-pair differential, 100 +/-5 ohms
<b>Cable Colour</b>	Black
<b>Cable Jacket</b>	Plastic braided mesh
<b>Packaging</b>	PE bag
<b>Power Supply Voltage</b>	3.3V
<b>Power Consumption</b>	Near Zero
<b>Temperature Range</b>	0 - 70°C
<b>Retention Force</b>	>90N for QSFP; >125N for OSFP
<b>Insertion Force</b>	<60N for QSFP; < 40N for OSFP
<b>EEPROM</b>	CMIS 5.0 compliance
<b>Cable Termination</b>	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.

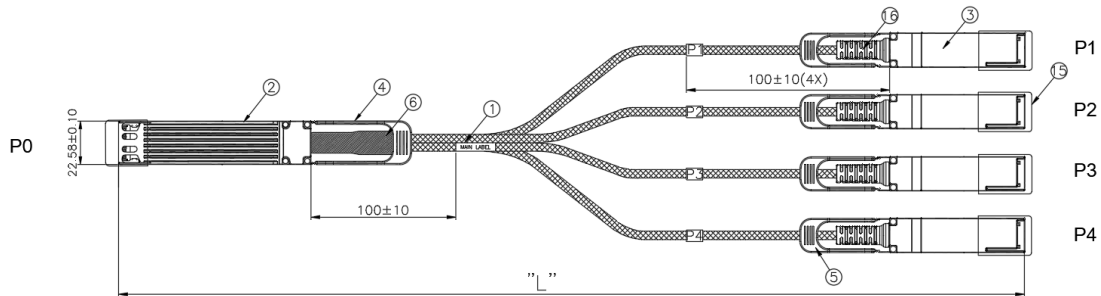
Applications	Standards Compliance
<ul style="list-style-type: none"> <li>Switches, Servers, Routers, Storage Arrays</li> <li>Networking Equipment</li> <li>Data Centres</li> <li>Telecommunication Central Offices</li> <li>Test and Measurement Equipment</li> </ul>	<ul style="list-style-type: none"> <li>IEEE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

## 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)
DG60BDG05BS	DK60BDG05BS	0.50	30AWG	6.5/5.2
DG60BDG10BS	DK60BDG10BS	1.00	30AWG	6.5/5.2
DG68BDG15BS	DK68BDG15BS	1.50	28AWG	7.6/6.0
DG66BDG20BS	DK66BDG20BS	2.00	26AWG	8.0/6.8

0.5 –2.0m 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

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Contact us at [sales@volex.com](mailto:sales@volex.com)  
for assistance in finding the right solution for your needs.