

100G QSFP28

Passive DAC Breakout Cables



Volex's QSFP28 Passive Breakout Direct Attach Cables feature 4 transmitting and 4 receiving channels at 25Gbps with NRZ modulation per channel. 100Gbps (QSFP28) to 2x 50Gbps (2x QSFP28) and 4x 25Gbps (4x SFP28) breakout configurations are supported. The cable assemblies meet 25Gbps Ethernet (IEEE 802.3bj) 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.

Volex's QSFP28 breakout cable assemblies are designed to meet the next gen data center needs. This next gen product shares the same mating interface with the previous gen form factors and is compatible with QSFP DD, QSFP56, QSFP28, QSFP+, SFP56, SFP28 and SFP+ ports.



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

Product Type	100Gbps (QSFP28) to 4x 25 Gbps (SFP28) or 2x 100Gbps (QSFP28 Passive Breakout Copper Direct Attach Cable
Conductor Treatment	Laser stripped conductors
Cable Type	High-speed twinax cable, 4x 2-pair or 2x 4-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	PVC
Packaging	PE bag
Power Supply Voltage	3.3 V
Temperature Range	0 - 70°C
Retention Force	Meet MSA specification
Insertion Force	Meet MSA specification
EEPROM	Each connector module contains an EEPROM to provide product information to the host system
Cable Termination	100% factory tested including comprehensive signal integrity verification and serial number traceability using advanced Manufacturing Execution Systems

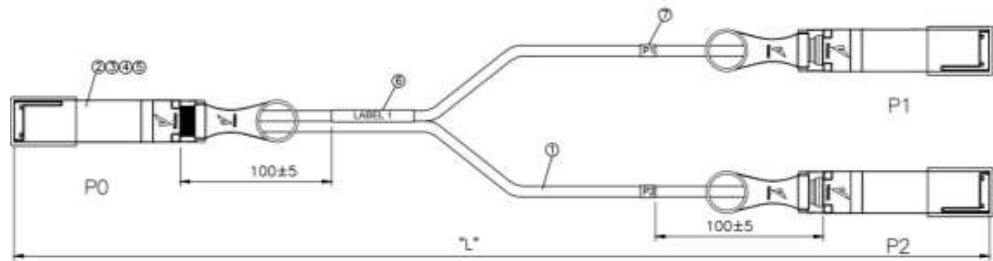
Volex reserves the right to change specifications and availability without prior notice.

High-Speed Interconnect

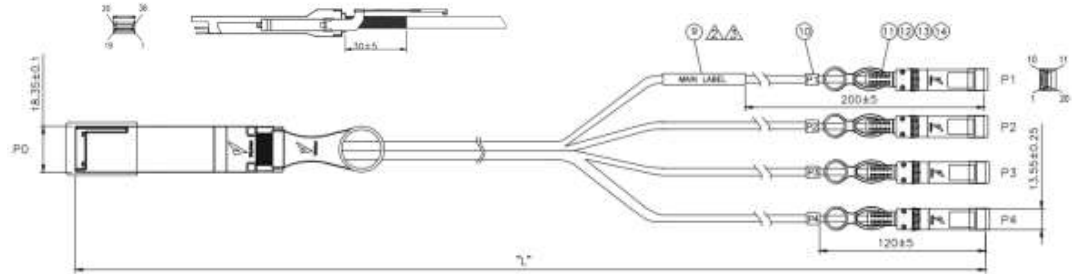
Applications	Standards Compliance
<ul style="list-style-type: none"> Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centers Telecommunication Central Offices Test and Measurement Equipment 	<ul style="list-style-type: none"> IEEE P802.3bj, InfiniBand EDR SFF-8402, SFF-8432, SFF-8665, SFF-8661, SFF-8472, SFF-8636, SFF-8679 EIA-364 UL 94, 1581, VW1 RoHS

Mechanical Drawing

QSFP28 to 2x QSFP28 Breakout Configuration



QSFP28 to 4x SFP28 Breakout Configuration



Volex P/N (QSFP28 to 2x QSFP28)	Volex P/N (QSFP28 to 4x SFP28)	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm) (2x / 4x)
D240PSG05BS	D440PSG05BS	0.50	30	6.0 / 4.5
D240PSG10BS	D440PSG10BS	1.00	30	6.0 / 4.5
D240PSG20BS	D440PSG20BS	2.00	30	6.0 / 4.5
D240PSG30BS	D440PSG30BS	3.00	30	6.0 / 4.5
D248PSG40BS	D448PSG40BS	4.00	28	6.0 / 5.5
D246PSG50BS	D446PSG50BS	5.00	26	7.5 / 6.0

0.5 - 5.0m lengths available with 26 - 30 AWG conductor sizes to achieve maximum performance.

Options Available

- Low Smoke, Zero Halogen (LSZH) Jackets
- Custom colours for pull tab
- Custom EEPROM mapping

Volex Worldwide CONTACT INFO		
Americas Tel: +1 501 438 1313		EMEA Tel: +44 7768 924844
China Tel: +86 159 5019 6906	Asia Pacific Tel: +65 6904 1545	India Tel: +91 99406 10637

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