

100G QSFP28 to 2x QSFP28

Active DAC Breakout Cables

Volex's QSFP28 Active Breakout Direct Attach Cables feature 4 transmitting and 4 receiving 25Gbps NRZ channels and support 100Gbps (QSFP28) to 2x 50Gbps (2x QSFP28) breakout configurations. The cable assemblies meet 25GbE Ethernet (IEEE 802.3by) standard. The signal integrity severely stressed under high speed data transmission is enhanced via advanced linear equalization. The result is longer reach with same or thinner and more flexible cable. Also, the maximum cable length meeting IEEE CA N specification can be doubled to cover full in rack cabling length requirement. CAN cable supports low latency application by not requiring latency inducing FEC.

Next gen data centers are deploying faster speed in a tighter space. The Volex QSFP28 active breakout cables are designed for high density applications with reliable operation and low cost.



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	100Gbps (QSFP28) 2x 50Gbps (QSFP28) Active Breakout Copper Direct Attach Cable
Conductor Treatment	Laser stripped conductors
Cable Type	High-speed twinax cable 2 or 4-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	PVC
Packaging	PE bag
Power Supply Voltage	3.3 V
Power Consumption	<150mW per active channel
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

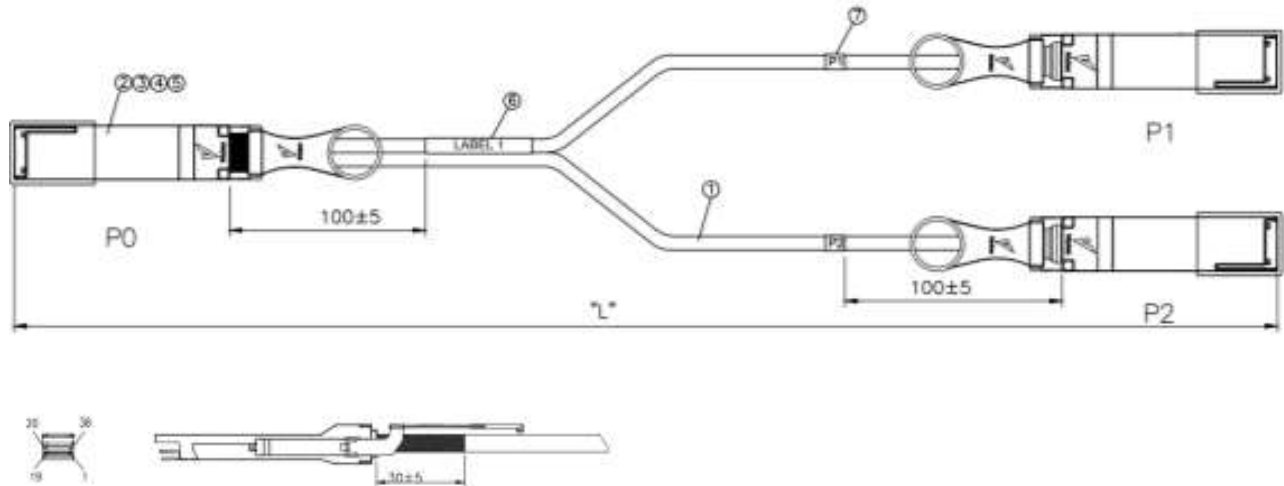
Volex reserves the right to change specifications and availability without prior notice.

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 P802.3by, InfiniBand EDR SFF-8402, SFF-8432, SFF-8665, SFF-8661, SFF-8472, SFF-8636, SFF-8679 EIA-364 UL 94, 1581, VW1, File No. E510564 RoHS

Mechanical Drawing

QSFP28 to 2x QSFP28 Breakout Configuration



Volex P/N (QSFP28 to 2x QSFP28)	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
D240PDG40BA	4.00	30	6.0
D240PDG50BA	5.00	30	6.0
D248PDG50BA	5.00	28	6.6
D248PDG60BA	6.00	28	6.6
D248PDG70BA	7.00	28	6.6
D246PDG70BA	7.00	26	7.5
D246PDG80BA	8.00	26	7.5
D246PDG90BA	9.00	26	7.5

4.0 - 9.0m 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

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for assistance in finding the right solution for your needs.