

# 200G QSFP56

## Passive DAC Breakout Cables



Volex's QSFP56 Passive Breakout Direct Attach Cables feature 4 transmitting and 4 receiving channels at 50Gbps with PAM 4 modulation per channel. 200Gbps (QSFP56) to 2x 100Gbps (2x QSFP56) and 4x 50Gbps (4x SFP56) breakout configurations are supported. The cable assemblies meet 50Gbps Ethernet (IEEE 802.3cd) 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 QSFP56 breakout cable assemblies are designed to meet the next gen data center needs. This next gen product shares the same mating interface with the pervious 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

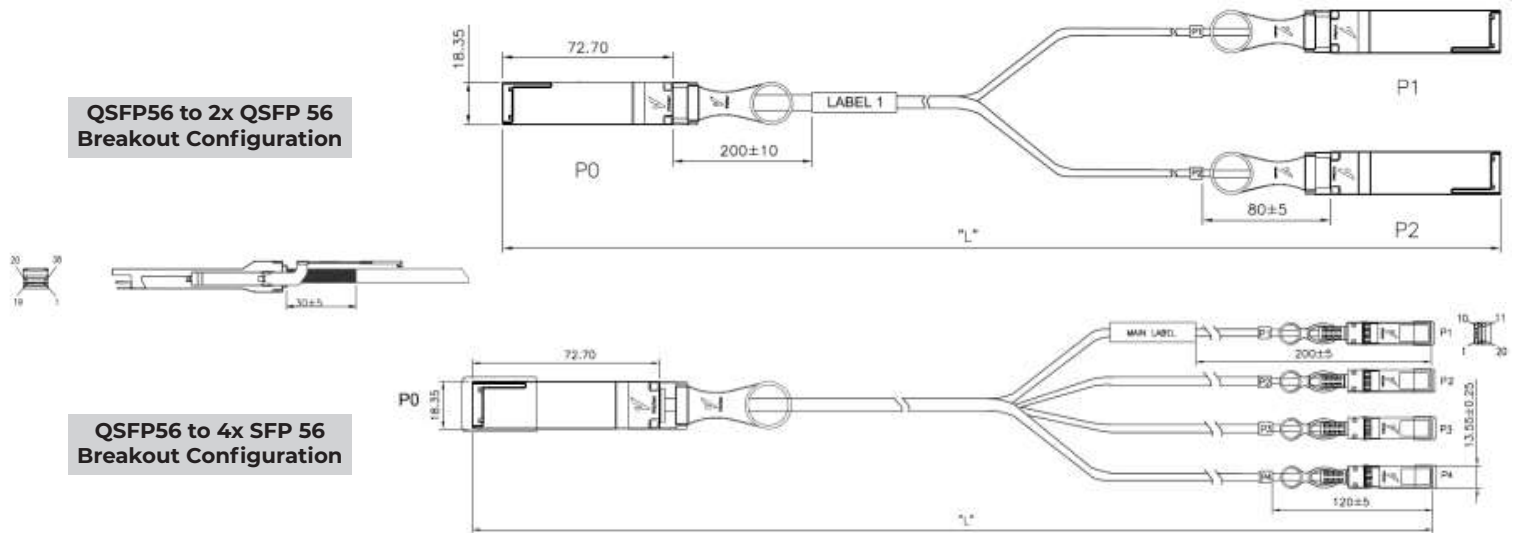
<b>Product Type</b>	200Gbps (QSFP56) to 4x 50Gbps (SFP56) or 2x 100Gbps (QSFP56) Passive Breakout Copper Direct Attach Cable
<b>Conductor Treatment</b>	Laser stripped conductors
<b>Cable Type</b>	High-speed twinax cable, 4x 2-pair or 2x 4-pair differential, 100 +/-5 ohms
<b>Cable Colour</b>	Black
<b>Cable Jacket</b>	PVC
<b>Packaging</b>	PE bag
<b>Power Supply Voltage</b>	3.3 V
<b>Temperature Range</b>	0 - 70°C
<b>Retention Force</b>	Meet MSA specification
<b>Insertion Force</b>	Meet MSA specification
<b>EEPROM</b>	Each connector module contains an EEPROM to provide product information to the host system
<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.

**High-Speed Interconnect**

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

## Mechanical Drawing



Volex P/N (QSFP56 to 2x QSFP56)	Volex P/N (QSFP56 to 4x SFP56)	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm) (2x/4x)
D250PSG05BS	D450PSG05BS	0.50	30	6.0 / 4.5
D250PSG10BS	D450PSG10BS	1.00	30	6.0 / 4.5
D250PSG15BS	D450PSG15BS	1.50	30	6.0 / 4.5
D250PSG20BS	D450PSG20BS	2.00	30	6.0 / 4.5
D258PSG25BS	D458PSG25BS	2.50	28	6.6 / 5.5
D256PSG30BS	D456PSG30BS	3.00	26	7.5 / 6.0

0.5 - 3.0m 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		
<b>Americas</b> Tel: +1 501 438 1313		<b>EMEA</b> Tel: +44 7768 924844
<b>China</b> Tel: +86 159 5019 6906	<b>Asia Pacific</b> Tel: +65 6904 1545	<b>India</b> Tel: +91 99406 10637

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