

Volex 400G QSFP-DD ACC Breakout Cable



Volex's QSFP-DD to 2x/4x QSFP56 active breakout Direct Attach Cable features 8 50Gbps channels with PAM-4 modulation for each of the transmitting and receiving directions. The breakout cable is offered in a 400Gbps (QSFP-DD) to 2x 200Gbps (2x QSFP56) or 4x 100Gbps (4x QSFP56) configurations. The cable assembly meets QSFP-DD MSA and IEEE 802.3cd specifications. The signal integrity severely stressed under high-speed data transmission is enhanced via advanced linear equalization. The result is longer reach up to 7M vs 3M for the passive version with the same unique dielectric material and cable construction that offers the smallest cable size and highest flexibility.



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.



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

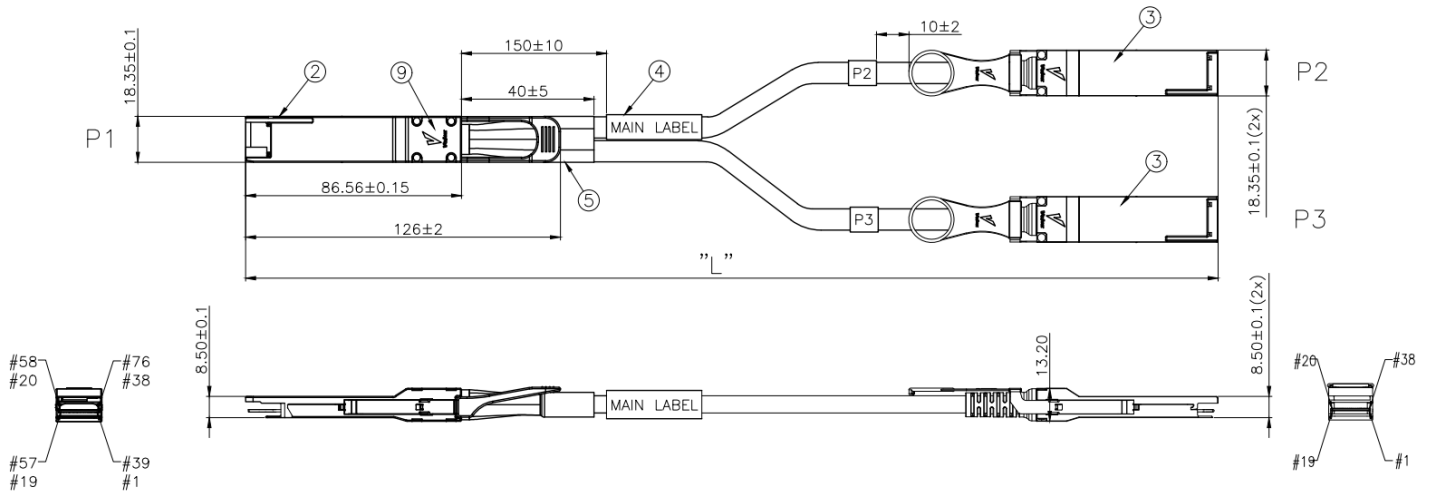
Product Type	400G QSFP-DD to 2x/4x QSFP56 ACC Breakout Cable Assembly
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	PVC or Plastic braided mesh
Packaging	Anti-Static PE bag
Power Supply Voltage	3.3V
Power Consumption	<150mW per active channel
Temperature Range	0 - 70°C
Retention Force	>90N for QSFP; >125N for QSFP-DD
Insertion Force	Maximum 90N for QSFP-DD and Maximum 60N for QSFP per 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.

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 802.3cd QSFP-DD/QSFP-DD800 HW MSA, SFF-8665, SFF-8661, SFF-8636, SFF-8679 EIA-364 UL 94, 1581, VW1, File No. E510564 RoHS

Mechanical Drawing

QSFP-DD to 2x QSFP56 configuration shown



Volex P/N (QSFP-DD to 2x QSFP56)	Volex P/N (QSFP-DD to 4x QSFP56)	Cable Length (M)	Gauge (AWG)	Cable OD (mm) (2x/4x)
DT50PDG30BA	DC50PDG30BA	3.00	30AWG	6.8/5.3
DT50PDG40BA	DC50PDG40BA	4.00	30AWG	6.8/5.3
DT58PDG50BA	DC58PDG50BA	5.00	28AWG	7.9/6.5
DT58PDG60BA*	DC58PDG60BA*	6.00	28AWG	7.9/6.5
DT58PDG70BA*	DC58PDG70BA*	7.00	28AWG	7.9/6.5
DT56PDG70BA*	DC56PDG70BA*	7.00	26AWG	8.5/6.8

3 – 7m 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

* Cables are pending final qualification. Length listed above are preliminary.

Volex Worldwide CONTACT INFO		
Americas Tel: +1 512 608 2402	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.