Volex 400G QSFP-DD to QSFP56 Passive DAC Breakout Cable



Volex's QSFP-DD to 2x/4x QSFP56 passive 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 IEEE 802.3cd 50GBase-CR and 100GBase-CR2 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



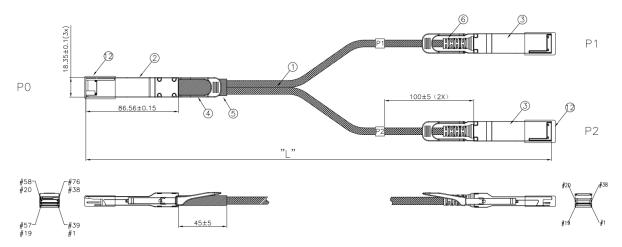
100% tested for signal integrity with serial number traceability

FEATURES AND SPECIFICATIONS				
Product Type	400Gbps QSFP-DD to 2x/4x QSFP56 Passive Breakout DAC Cable			
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	Near zero			
Temperature Range	0 - 70°C			
Retention Force	Minimum 125N per MSA specification (All ends)			
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		
 Switches, Servers, Routers, Storage Arrays Networking Equipment Data Centres Telecommunication Central Offices Test and Measurement Equipment 	 IEEE 802.3cd QSFP-DD/QSFP-DD800 HW MSA, SFF-8665, SFF-8661, SFF-8636, SFF-8679, CMIS 5.0 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)
DT50BDG05BS	DC50BDG05BS	0.50	30	6.8/5.3
DT50BDG10BS	DC50BDG10BS	1.00	30	6.8/5.3
DT50BDG15BS	DC50BDG15BS	1.50	30	6.8/5.3
DT50BDG20BS*	DC50BDG20BS*	2.00	30	6.8/5.3
DT58BDG25BS*	DC58BDG25BS*	2.50	28	7.9/6.5
DT56BDG30BS*	DC56BDG30BS*	3.00	26	8.5/6.8

0.5 – 3.0m 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

[&]quot;*" - Maximum cable reach of passive DAC will be shorter in InfiniBand HDR application.

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

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