

Volex 400G QSFP-DD Passive DAC Cable



Volex's QSFP-DD (Double Density) passive direct attach copper cable doubles the number of lanes of the previous 100/200Gbps generation QSFP28/56 from 4 to 8. The cable assembly meets IEEE 802.3cd and Infiniband standards with substantial signal integrity margin providing high performance and bandwidth interconnect solutions for high-density applications. The cable assembly supports 200Gbps with 25Gbps/lane NRZ modulation and 400Gbps with 50Gbps/lane PAM-4 modulation for a reach up to 3m.

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 QSFP-DD cable is designed to meet the next-gen data center needs. With unique foam dielectric construction, Volex QSFP-DD cable offers 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

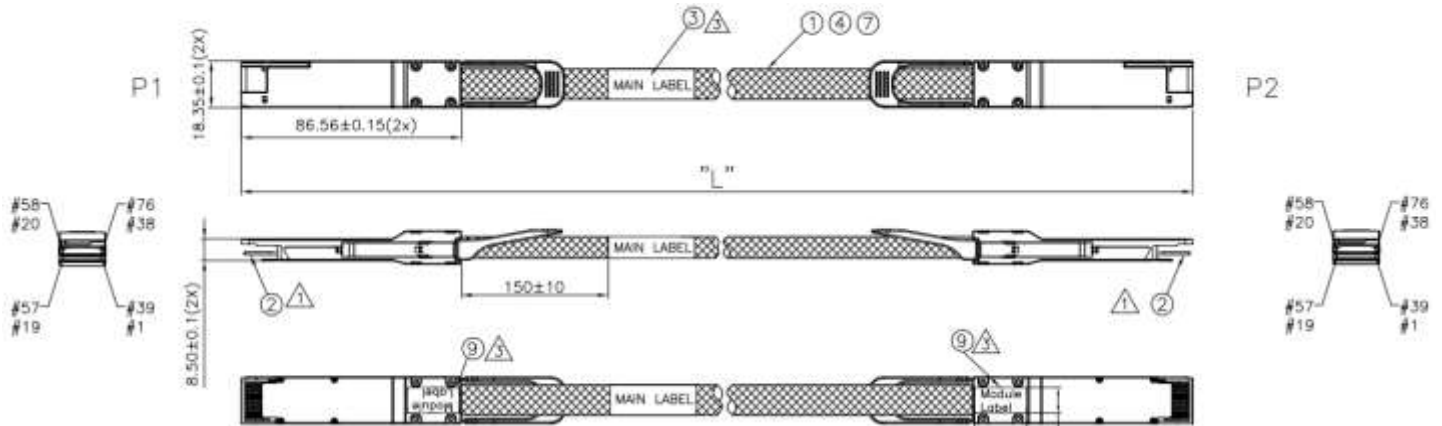
Product Type	400G QSFP-DD Passive DAC Cable
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 16-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	Plastic braided mesh
Packaging	Anti-Static PE bag
Power Supply Voltage	3.3V
Power Consumption	0
Temperature Range	0 - 70°C
Retention Force	Minimum 125N per MSA specification
Insertion Force	Maximum 90N 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.

High-Speed Interconnect

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, Infiniband HDR QSFP-DD/QSFP-DD800 HW MSA EIA-364 UL 94, 1581, VW1, File No. E510564 RoHS CMIS 5.0

Mechanical Drawing



Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
DQ50BDG05BS	0.50	30AWG	9.0
DQ50BDG10BS	1.00	30AWG	9.0
DQ50BDG15BS	1.50	30AWG	9.0
DQ50BDG20BS*	2.00	30AWG	9.0
DQ58BDG25BS*	2.50	28AWG	10.4
DQ56BDG30BS*	3.00	26AWG	11.6

“*” - Maximum cable reach of passive DAC will be shorter in InfiniBand HDR application.

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

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