

Volex 400G QSFP112 Active Electrical Cable



Volex's 400G QSFP112 Active Electrical Cable features 4 transmitting and 4 receiving channels at 100 Gbps with PAM-4 modulation per channel speed. The cable assembly meets IEEE 802.3ck 400GBase-CR4, 200GBase-CR2 and 100GBase-CR1 specifications and is designed for high density applications, where high performance and bandwidth interconnect solutions are required. The signal integrity, severely stressed under high-speed data transmission, is enhanced via advanced DSP equalization. The result is longer reach up to 5M with smallest cable size and highest flexibility. The result is a highly flexible DAC cable which reduces the overall bend space up to 30% vs the passive version, making it ideal for deployment in high density rack.



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 QSFP112 Active Electrical Cable is designed to meet the next-gen data center needs and is a cost-effective alternative to the high-power consumption Active Optical Cable.



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

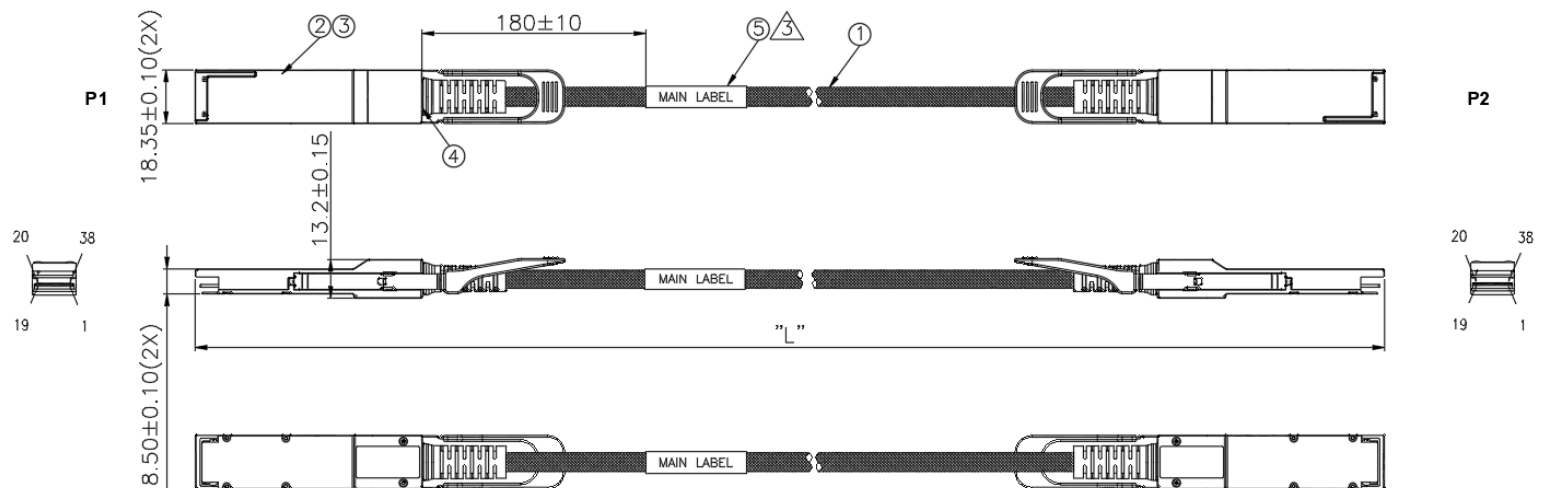
FEATURES AND SPECIFICATIONS

Product Type	QSFP112 to QSFP112 active electrical cable assembly
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 8-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	<8W per active module(4 channels)
Temperature Range	0 – 70° C
Retention Force	Minimum 90N per MSA specification
Insertion Force	Maximum 60N per MSA specification
EEPROM	CMIS 5.0 compliance
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 P802.3ck, Infiniband NDR QSFP-DD/QSFP-DD800/QSFP112 HW Rev 6.01 CMIS 5.0 SFF-8661, SFF-8679, SFF-8636 EIA-364 UL 94, 1581, VW1, File No. E510564, RoHS

Mechanical Drawing



Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
DA62BDG10BE	1.00	32	5.3
DA62BDG20BE	2.00	32	5.3
DA62BDG30BE	3.00	32	5.3
DA68BDG50BE	5.00	28	7.6

1 - 5m lengths available with 32 – 28 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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Contact us at sales@volex.com
for assistance in finding the right solution for your needs.