100G QSFP28
Active Copper Cable

Volex's QSFP28 Active Copper Direct Attach Cable features 4 transmitting and 4 receiving 25Gbps NRZ channels. The cable assembly meets 25G and 100G Ethernet and InfiniBand EDR standards. The Volex QSFP28 active DAC enhances Signal Integrity, which is severely stressed under high-speed data transmission, through advanced linear equalization.

The result is longer reach up to 9M vs 5M for the passive version and smallest cable size and highest flexibility. Also, IEEE CA 25G N spec can be met for full in rack cabling length to support no FEC for low latency application.

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.

The Volex QSFP28 active DAC 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
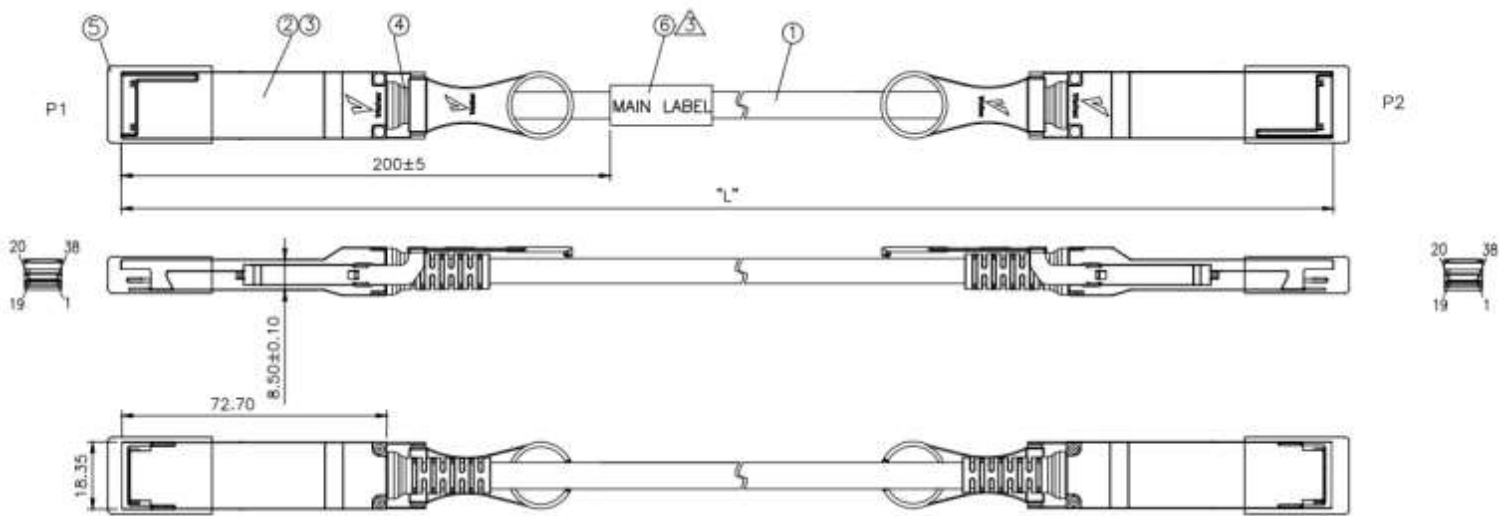
FEATURES AND SPECIFICATIONS	
Product Type	QSFP28 to QSFP28 Direct Active Copper Cable Assembly
Conductor Treatment	Laser stripped conductors
Cable Type	High-speed twinax cable, 8-pair differential, 100 +/-5 ohms
Cable Colour	Black
Cable Jacket	PVC
Packaging	PE bag
Power Supply Voltage	3.3 V
Power Consumption	<150mW per active channel
Temperature Range	0 - 70°C
Retention Force	Minimum 125N per SFF-8661
Insertion Force	Maximum 60N per SFF-8661
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

Applications
- Switches, Servers, Routers, Storage Arrays
- Networking Equipment
- Data Centers
- Telecommunication Central Offices
- Test and Measurement Equipment

Standards Compliance
- IEEE P802.3bj, IEEE 802.3by
- InfiniBand EDR
- SFF-8665, 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)
DA40PDG40BA	4.00	30	7.0
DA40PDG50BA	5.00	30	7.0
DA48PDG50BA	5.00	28	8.5
DA48PDG60BA	6.00	28	8.5
DA48PDG70BA	7.00	28	8.5
DA46PDG70BA	7.00	26	9.5
DA46PDG80BA	8.00	26	9.5
DA46PDG90BA	9.00	26	9.5

4.0 - 9.0m 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

Americas Tel: +1 501 438 1313	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.