Volex 800G OSFP Active Copper Cable

Volex's OSFP 800G active copper cable features 8 transmitting and 8 receiving 100Gbps PAM-4 channels. The cable assembly meets 800G OSFP MSA and IEEE 802.3ck specifications. The signal integrity severely stressed under high-speed data transmission is enhanced via advanced linear equalization. The result is longer reach up to 5M vs 2M for the passive version with the same unique dielectric material and cable construction that offers the 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 OSFP 800G active copper 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

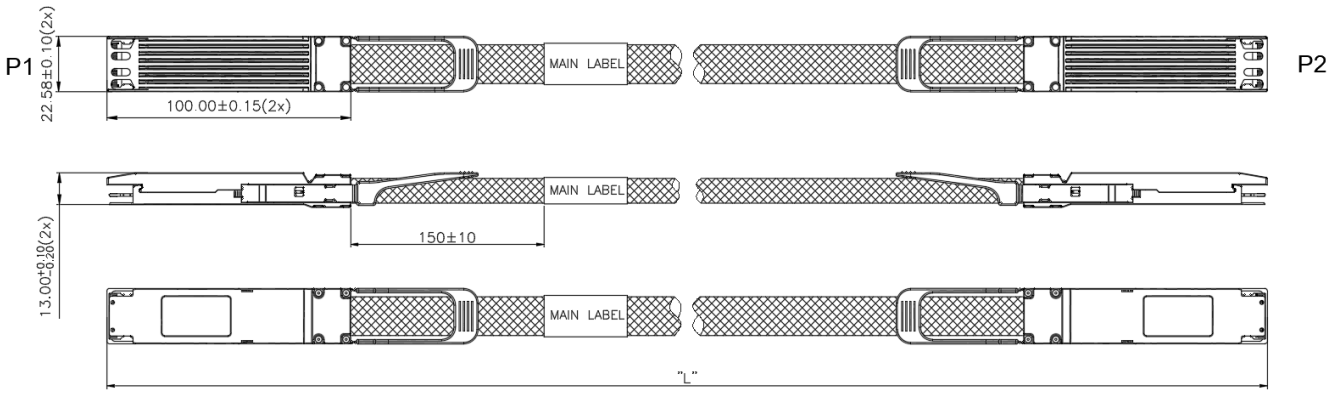
Complete cable assembly uniquely terminated at the factory to provide the most reliable operation

100% tested for signal integrity with serial number traceability

FEATURES AND SPECIFICATIONS	
Product Type	800G OSFP active copper cable assembly
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	PE bag
Power Supply Voltage	3.3V
Power Consumption	<150mW per active channel
Temperature Range	0 - 70°C
Retention Force	Minimum 125N per MSA specification
Insertion Force	Maximum 40N 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
• Switches, Servers, Routers, Storage Arrays • Networking Equipment • Data Centres • Telecommunication Central Offices • Test and Measurement Equipment	• IEEE 802.3ck • Specification for OSFP, Rev 5.0 • CMIS 5.0 • EIA-364 • UL 94, 1581, VW1, File No. E510564 • RoHS

Mechanical Drawing



Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)	Bend radius (mm)
DE60BDG10BA	1.00	30AWG	9.7	48.5
DE60BDG20BA	2.00	30AWG	9.7	48.5
DE60BDG30BA	3.00	30AWG	9.7	48.5
DE66BDG40BA	4.00	26AWG	11.9	59.5
DE66BDG50BA*	5.00	26AWG	11.9	59.5

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

1.0 – 5.0m 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.