

Volex 1.6T OSFP1600 Active Copper Cable



Volex's 1.6T OSFP1600 active copper cable features 8 transmitting and 8 receiving 224Gbps PAM4 channels for 1.6T operation. The cable assembly meets IEEE 802.3df and 802.3dj 1600GBase-CR8 standard. The signal integrity severely stressed under high-speed data transmission is enhanced via advanced linear equalization. The result is longer reach up to 2.5M vs 1M 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 1600 cable is designed to meet the next-gen data center needs. With unique foam dielectric construction, Volex OSFP 1600 cable offers smallest cable outer diameter and bend radius and highest flexibility while meeting or exceeding the MSA signal integrity specification.



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

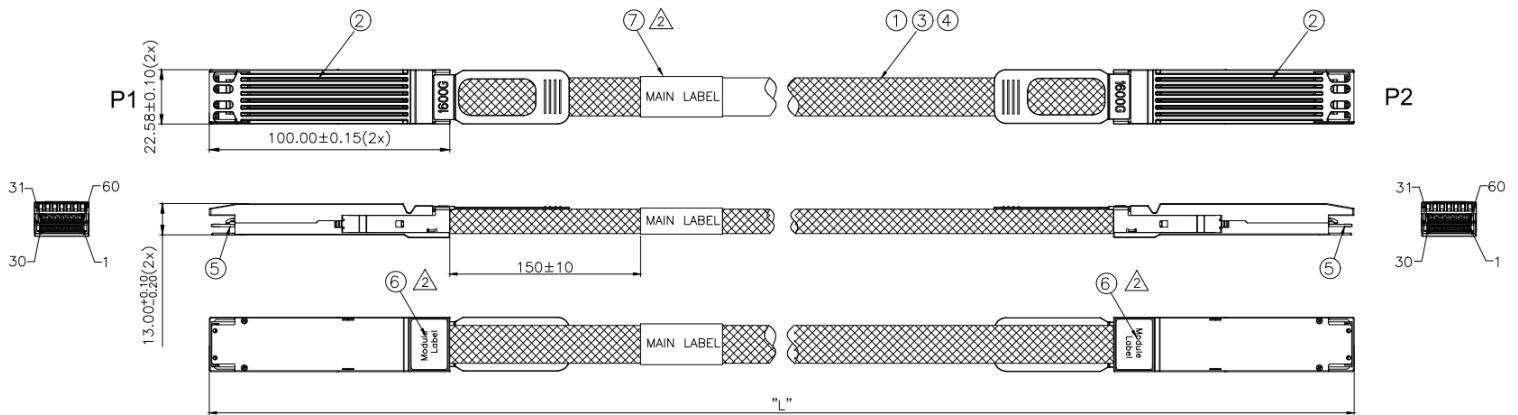
FEATURES AND SPECIFICATIONS

Product Type	1.6T OSFP1600 active copper cable assembly
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 16-pair differential, 92 +/-5 ohms
Cable Colour	Black
Cable Jacket	Plastic braided mesh
Packaging	PE bag
Power Supply Voltage	3.3V
Power Consumption	<200mW 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
<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 802.3dj& 802.3df • Specification for OSFP, Rev 5.02 • EIA-364 • UL 94, 1581, VW1, File No. E510564, RoHS • CMIS 5.0 compliance

Mechanical Drawing



Volex P/N	Cable Length (m)	Cable Gauge (AWG)	Cable OD (mm)
DE75BDG10BA*	1.00	25AWG	11.9
DE75BDG15BA*	1.50	25AWG	11.9
DE75BDG20BA*	2.00	25AWG	11.9
DE75BDG25BA*	2.50	25AWG	11.9

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

1 – 2.5m lengths available with 25AWG 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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for assistance in finding the right solution for your needs.