



# QSFP28 Passive Breakout Direct Attach Cables

- NEAR ZERO POWER CONSUMPTION AND NO HEAT GENERATED
- COMPLETE CABLE ASSEMBLY UNIQUELY TERMINATED AT THE FACTORY TO PROVIDE MOST RELIABLE OPERATION
- 100% TESTED FOR SIGNAL INTEGRITY WITH SERIAL NUMBER TRACEABILITY



Volex's QSFP28 passive breakout Direct Attach Cables feature 4 transmitting and 4 receiving channels at 25Gbps per channel speed and support 100Gbps (QSFP28) to 2x 50Gbps (2x QSFP28) and 4x 25Gbps (4x SFP28) breakout configurations. The cable assemblies meet 25GbE Ethernet (IEEE 802.3by) standard with substantial signal integrity margin providing high performance and bandwidth interconnect solutions for high-density applications.

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 QSFP28 breakout cable assemblies are designed to meet the next-gen data center needs. This next gen product shares the same mating interface with QSFP+ and SFP+ form factors, making it backward compatible with existing QSFP+ and SFP+ ports.

## Features and Specifications

Product Type	100Gbps (QSFP28) to 4x 25Gbps (SFP28) and 2x 50Gbps (QSFP28) breakout Direct Attach Cables
Conductor Treatment	Laser stripped conductors
Cable Type	High speed twinax cable, 2 or 4-pair differential, 100 +/-5 ohms
Cable Color	Black
Cable Jacket	PVC
Packaging	PE bag
Power Supply Voltage	3.3 V
Temperature Range	0 - 70° C
Retention Force	Meet MSA specification
Insertion Force	Meet 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.



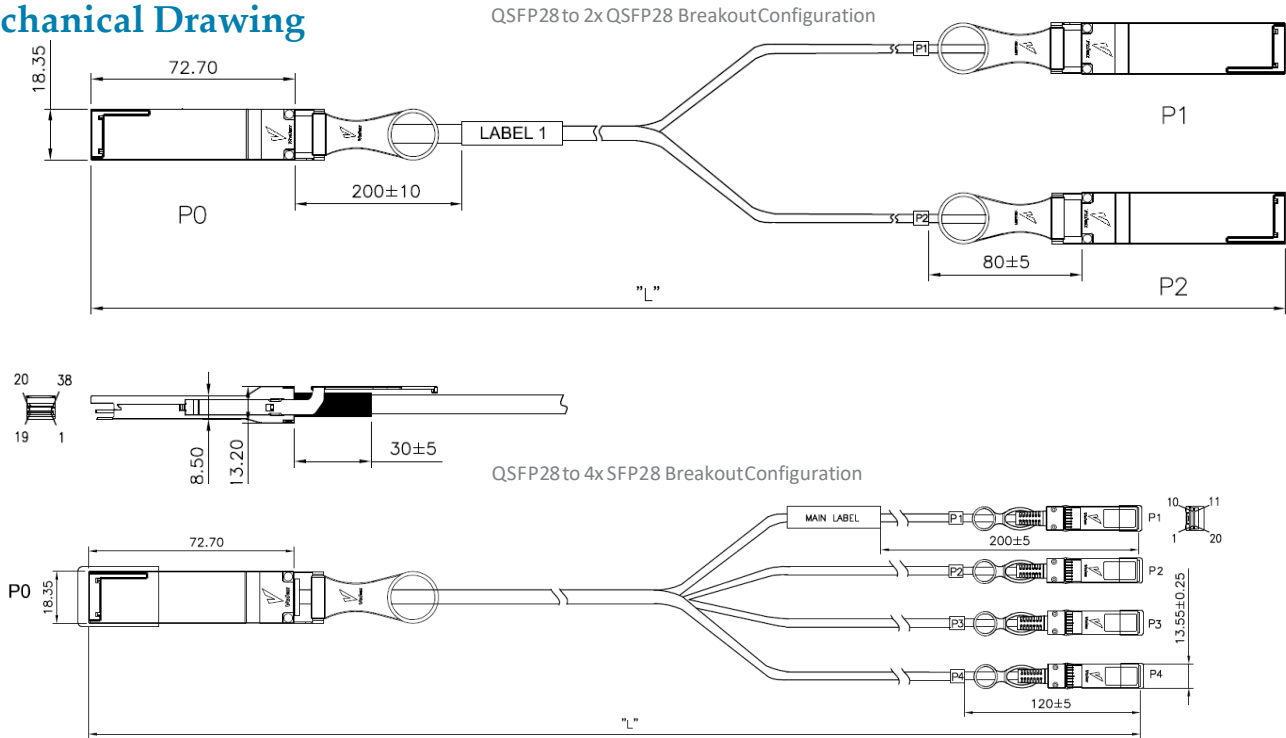
## Applications

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

## Standards Compliance

- IEEE P802.3by
- SFF-8402, SFF-8432, SFF-8665, SFF-8661, SFF-8472, SFF-8636, SFF-8679
- EIA-364
- UL 94, 1581, VW1, File No. E510564
- RoHS

## Mechanical Drawing



Volex P/N (QSFP28 to 2x QSFP28)	Volex P/N (QSFP28 to 4x SFP28)	Cable Length (m)	Cable Gauge (AWG)
Q2Q28V30VP100S	Q4S28V30VP100S	1.00	30
Q2Q28V30VP150S	Q4S28V30VP150S	1.50	30
Q2Q28V30VP200S	Q4S28V30VP200S	2.00	30
Q2Q28V30VP250S	Q4S28V30VP250S	2.50	30
Q2Q28V30VP300S	Q4S28V30VP300S	3.00	30
Q2Q28V28VP350S	Q4S28V28VP350S	3.50	28
Q2Q28V28VP400S	Q4S28V28VP400S	4.00	28
Q2Q28V26VP450S	Q4S28V26VP450S	4.50	26
Q2Q28V26VP500S	Q4S28V26VP500S	5.00	26

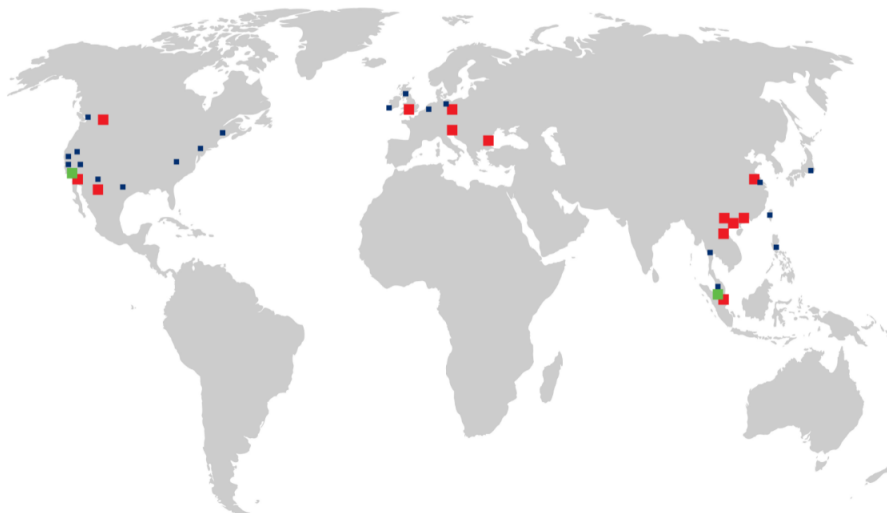
1-5m lengths available with 26-30 AWG conductor sizes to achieve maximum performance.

### Options Available

- Low Smoke, Zero Halogen (LSZH) jackets
- Custom colors for pull tab
- Custom EEPROM mapping

Contact us at [sales@volex.com](mailto:sales@volex.com) for assistance in finding the right solution for your needs.

[www.volex.com](http://www.volex.com)



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