

High-Speed Direct Attached Cable (DAC) Assemblies



Molex High-Speed DAC Assemblies deliver a complete zSFP+ and zQSFP+ interconnect solution across multiple industry standards with data rates as high as 100 Gbps and off-the-shelf and custom lengths

Function across a wide variety of next-generation technologies and applications
Enables connections between a range of applications

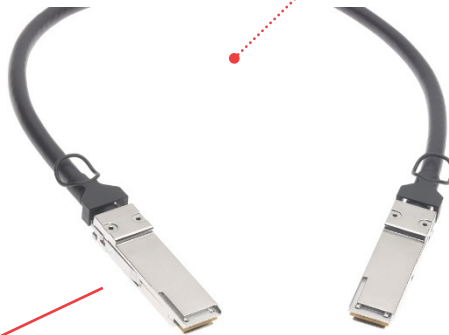
Features and Benefits

10, 25, 28 and 40 Gbps with the capability of delivering 100+ Gbps
Delivers high-speed connection to meet today's data rate needs

Optimized wire termination zone
Minimizes insertion loss and crosstalk



zQSFP+-to-zQSFP+ DAC Assembly



zQSFP+-to-2-zQSFP+ DAC Assembly

Twist rate insulation, separation, precision
Reduces internal noise. Maximizes signal strength

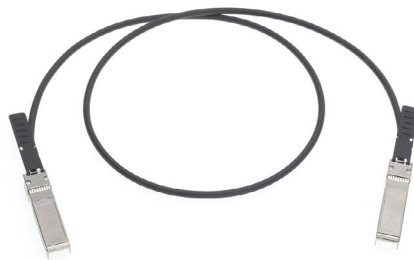


Consistency and precision of manufacturing process and shielding
Minimizes external noise. Delivers optimal signal integrity

Meet IEEE 802.3bj, InfiniBand EDR and SAS 3.0 specifications
Compatible with a wide range of equipment

Cable assemblies made entirely with Molex components, including Temp-Flex cables
Offers a one-stop shop for a complete cable solution. Eliminates a vendor. Provides superior electrical performance with Temp-Flex cables and Molex connectors

Low-smoke, zero-halogen options available for 25 and 28 Gbps cable assemblies
Offers safer cable due to less toxins and corrosive gas in case of a fire. Easy disposal. Meets European Commission datacenter safety and environmental



zSFP+-to-zSFP+ DAC Assembly

Applications

Telecommunications/Networking

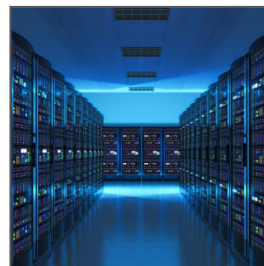
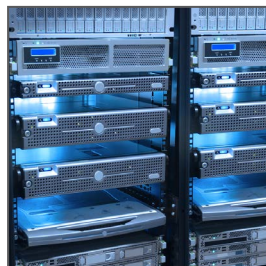
- Switches
- Servers
- Routers
- Infrastructure
- Test and measurement equipment

Data Communications

- Storage network
- Data center network

Medical

- Diagnostics
- Networking



High-Speed Direct Attached Cable (DAC) Assemblies



Specifications

REFERENCE INFORMATION

Packaging: Bag
 Mates With: zSFP+ and SFP+ Pluggable Modules;
 Use With: Series 100113, 100114 and 100115
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

ELECTRICAL

Data Voltage (max.): 10V DC
 Supply Voltage (max.): 3.47V
 Supply Current, Serial ID Write (max.): 3.0mA
 Supply Current, Serial ID Read (max.): 1.0mA
 Surge Current (max.): 30mA
 Data Path
 Baud Rate: 5 Gbps
 Bit Error Rate: 1E-12
 Impedance: 100 Ohms

PHYSICAL

Housing: Die Cast
 Backshells: Nickel Plated
 Rivets: Stainless Steel
 Operating Temperature: -0 to +70°C

Ordering Information

Series No.	Product	Data Rate (Gbps)	AWG	Length (m)
111145	zSFP+-to-zSFP+ Passive DAC Assembly	28	28, 30	0.5, 1.0, 2.0, 2.5, 3.0, 4.0, 5.0
100297	zQSFP+-to-zQSFP+ DAC Assembly		30, 32	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0
100345	zQSFP+-to-4-zQSFP+ DAC Assembly	100	26 to 30	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0
100346	zQSFP+-to-2-zQSFP+ DAC Assembly			1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0
74752	SFP+ Passive DAC Assembly	10	24 to 30	0.3, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 12.0, 13.0, 14.0, 15.0, 20.0
111040	QSFP+-to-QSFP+ DAC Assembly	40	24 to 30	0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 10.0, 15.0
74764	QSFP+-to-4-SFP+ DAC Assembly		28, 30	1.0, 2.0, 3.0, 4.0, 5.0

Low-Smoke, Zero-Halogen Versions

Series No.	Product	Data Rate (Gbps)	AWG	Length (m)
111145-xxx6*	zSFP+-to-zSFP+ passive DAC Assembly, LSZH	28	26, 30	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 5.0
100297-xxx6*	zQSFP+-to-zQSFP+ DAC Assembly, LSZH	25	30, 32	0.5, 1.0, 2.0, 3.0, 5.0
100345-xxx6*	zQSFP+-to-4-zSFP+ DAC Assembly, LSZH	100	26 to 30	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 5.0
100346-xxx6*	zQSFP+-to-2-zQSFP+ DAC Assembly, LSZH			1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0

* Meter makes up the "xxx" in the part numbers. For example, 111145-1106 is the part number for a 1m, 30 AWG zSFP-to-zSFP LSZH Cable Assembly.

Custom Product	Description
Contact Molex	Custom DAC Assemblies (custom length, gauge and programmed EEPROM)

www.molex.com/link/daccables.html

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