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.

**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
- 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
- Cable assemblies made entirely with Molex components, including Temp-Flex cables
- Low-smoke, zero-halogen options available for 25 and 28 Gbps cable assemblies
- Offers a one-stop shop for a complete cable solution. Eliminates a vendor. Provides superior electrical performance with Temp-Flex cables and Molex connectors
- Offers safer cable due to less toxins and corrosive gas in case of a fire. Easy disposal. Meets European Commission datacenter safety and environmental requirements

**Applications**

- **Telecommunications/Networking**
  - Switches
  - Servers
  - Routers
  - Infrastructure
  - Test and measurement equipment
- **Data Communications**
  - Storage network
  - Data center network
- **Medical**
  - Diagnostics
  - Networking

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

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

Cable assemblies made entirely with Molex components, including Temp-Flex cables
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 requirements
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**

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Product</th>
<th>Data Rate (Gbps)</th>
<th>AWG</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>111145</td>
<td>zSFP+-to-zSFP+ Passive DAC Assembly</td>
<td>28</td>
<td>28, 30</td>
<td>0.5, 1.0, 2.0, 2.5, 3.0, 4.0, 5.0</td>
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<tr>
<td>100297</td>
<td>zQSFP+-to-zQSFP+ DAC Assembly</td>
<td>28</td>
<td>30, 32</td>
<td>0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0</td>
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<tr>
<td>100345</td>
<td>zQSFP+-to-4-zQSFP+ DAC Assembly</td>
<td>100</td>
<td>26 to 30</td>
<td>0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0</td>
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<tr>
<td>100346</td>
<td>zQSFP+-to-2-zQSFP+ DAC Assembly</td>
<td>100</td>
<td>26 to 30</td>
<td>1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0</td>
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<tr>
<td>74752</td>
<td>SFP+ Passive DAC Assembly</td>
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<td>24 to 30</td>
<td>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</td>
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<td>111040</td>
<td>QSFP+-to-QSFP+ DAC Assembly</td>
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<td>24 to 30</td>
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<td>74764</td>
<td>QSFP+-to-4-SFP+ DAC Assembly</td>
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<td>28, 30</td>
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</tbody>
</table>

**Low-Smoke, Zero-Halogen Versions**

<table>
<thead>
<tr>
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<th>AWG</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>111145-xxx6*</td>
<td>zSFP+-to-zSFP+ passive DAC Assembly, LSZH</td>
<td>28</td>
<td>26, 30</td>
<td>0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 5.0</td>
</tr>
<tr>
<td>100297-xxx6*</td>
<td>zQSFP+-to-zQSFP+ DAC Assembly, LSZH</td>
<td>25</td>
<td>30, 32</td>
<td>0.5, 1.0, 2.0, 3.0, 5.0</td>
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<tr>
<td>100345-xxx6*</td>
<td>zQSFP+-to-4-zQSFP+ DAC Assembly, LSZH</td>
<td>100</td>
<td>26 to 30</td>
<td>0.5, 1.0, 1.5, 2.0, 2.5, 2.0, 5.0</td>
</tr>
<tr>
<td>100346-xxx6*</td>
<td>zQSFP+-to-2-zQSFP+ DAC Assembly, LSZH</td>
<td>100</td>
<td>26 to 30</td>
<td>1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0</td>
</tr>
</tbody>
</table>

* 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**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom DAC Assemblies (custom length, gauge and programmed EEPROM)</td>
</tr>
</tbody>
</table>

www.molex.com/link/daccables.html

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