IP69K-rated M12 Sensor Cables

Cables with quick-disconnect plugs

- Industry standard axial and right-angle M12 or 1/2” micro connectors with open leads
- 5m and 10m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rated for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

<table>
<thead>
<tr>
<th>M12 Quick-Disconnect Cables (Euro, Micro DC-Single Key)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>M12 Quick-Disconnects</td>
</tr>
<tr>
<td>EVT221</td>
</tr>
<tr>
<td>EVT222</td>
</tr>
<tr>
<td>EVT223</td>
</tr>
<tr>
<td>EVT224</td>
</tr>
<tr>
<td>1/2” Quick-Disconnects</td>
</tr>
<tr>
<td>E18446</td>
</tr>
<tr>
<td>E18447</td>
</tr>
<tr>
<td>E18448</td>
</tr>
<tr>
<td>E18449</td>
</tr>
</tbody>
</table>

Patch cables with quick-disconnect plugs on each end

Available patch cables include:
- Industry standard M12 screw-lock connectors
- One male and one female connector
- Axial and right-angle connector models
- 0.3m, 0.6m, 1m, 2m and 5m cable lengths
- PVC (polyvinyl chloride) jacket for food and beverage industrial applications
- IP69K rating, suitable for food and beverage industrial applications
- 316L stainless steel coupling nut
- EPDM o-ring

<table>
<thead>
<tr>
<th>M12 Patch Cables with Quick-Disconnect on Each End (Euro, Micro DC-Single Key)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>M12 Quick-Disconnect Patch Cables</td>
</tr>
<tr>
<td>EVT225</td>
</tr>
<tr>
<td>EVT226</td>
</tr>
<tr>
<td>EVT227</td>
</tr>
<tr>
<td>EVT228</td>
</tr>
<tr>
<td>EVT229</td>
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<tr>
<td>EVT230</td>
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<tr>
<td>EVT231</td>
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<tr>
<td>EVT232</td>
</tr>
<tr>
<td>EVT233</td>
</tr>
<tr>
<td>EVT234</td>
</tr>
</tbody>
</table>
IP69K-rated M12 Sensor Cables

<table>
<thead>
<tr>
<th>Specification</th>
<th>M12</th>
<th>1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>0.3m (0.98 ft), 0.6m (1.97 ft), 1m (3.3 ft), 2m (6.6 ft), 5m (16.4 ft), 10m (32.8 ft)</td>
<td>5m (16.4 ft), 10m (32.8 ft)</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>250 VAC/300 VDC</td>
<td>300 VAC/300 VDC</td>
</tr>
<tr>
<td>Max Current</td>
<td>4A</td>
<td>4A</td>
</tr>
<tr>
<td>Protection Degree</td>
<td>IEC IP67 / IP68 / IP69K</td>
<td>IEC IP67 / IP68 / IP69K</td>
</tr>
<tr>
<td>Material Nut</td>
<td>316L Stainless steel</td>
<td>316L Stainless steel</td>
</tr>
<tr>
<td>Jacket Material</td>
<td>PolyVinyl Chloride (PVC)</td>
<td>PolyVinyl Chloride (PVC)</td>
</tr>
<tr>
<td>Housing Material</td>
<td>PolyVinyl Chloride (PVC)</td>
<td>PolyVinyl Chloride (PVC)</td>
</tr>
<tr>
<td>Contacts Material</td>
<td>Gold plated</td>
<td>Gold plated</td>
</tr>
<tr>
<td>Tightening Torque</td>
<td>0.6 to 1.5 Nm</td>
<td></td>
</tr>
<tr>
<td>Conductors Cross Section (AWG)</td>
<td>22 AWG</td>
<td>22 AWG</td>
</tr>
<tr>
<td>Ø Outer Cable</td>
<td>4.9 mm</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-25° to 100°C (-13° to 212°F)</td>
<td>-10° to 100°C (14° to 212°F)</td>
</tr>
<tr>
<td>Environmental</td>
<td>Halogen free, Silicone free</td>
<td>Halogen free, Silicone free</td>
</tr>
<tr>
<td>Bending Radius</td>
<td>min. 10 x cable diameter</td>
<td></td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>UL E191684</td>
<td>UL E177636</td>
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Wiring - M12 DC

EVT221, EVT222, EVT223, EVT224

EVT225, EVT226, EVT227, EVT228, EVT229, EVT230, EVT231, EVT232, EVT233, EVT234

Wiring - 1/2” Micro AC

E18446, E18447, E18448, E18449

UL Reference

<table>
<thead>
<tr>
<th>Part Number</th>
<th>UL Catalog Number</th>
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<tbody>
<tr>
<td>EVT221</td>
<td>ADOGH040VAS0005E04</td>
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<tr>
<td>EVT222</td>
<td>ADOAH040VAS0005E04</td>
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<tr>
<td>EVT223</td>
<td>ADOGH040VAS0010E04</td>
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<tr>
<td>EVT224</td>
<td>ADOAH040VAS0010E04</td>
</tr>
<tr>
<td>EVT225</td>
<td>VDOGH040VAS000.3E04STGH040VAS</td>
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<tr>
<td>EVT226</td>
<td>VDOAH040VAS000.3E04STGH040VAS</td>
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<tr>
<td>EVT227</td>
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<td>EVT230</td>
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<td>EVT233</td>
<td>VDOGH040VAS0005E04STGH040VAS</td>
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<tr>
<td>EVT234</td>
<td>VDOAH040VAS0005E04STGH040VAS</td>
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Prices as of June 29, 2016. Check Web site for most current prices.
IP69K-rated M12 Sensor Cables

Dimensions

mm [inches]

Figure 1

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
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</thead>
<tbody>
<tr>
<td>EVT222</td>
<td>5m</td>
</tr>
<tr>
<td>EVT224</td>
<td>10m</td>
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</table>

Figure 2

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT226</td>
<td>0.3m</td>
</tr>
<tr>
<td>EVT228</td>
<td>0.6m</td>
</tr>
<tr>
<td>EVT230</td>
<td>1m</td>
</tr>
<tr>
<td>EVT232</td>
<td>2m</td>
</tr>
<tr>
<td>EVT234</td>
<td>5m</td>
</tr>
</tbody>
</table>

Figure 3

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT225</td>
<td>0.3m</td>
</tr>
<tr>
<td>EVT227</td>
<td>0.6m</td>
</tr>
<tr>
<td>EVT229</td>
<td>1m</td>
</tr>
<tr>
<td>EVT231</td>
<td>2m</td>
</tr>
<tr>
<td>EVT233</td>
<td>5m</td>
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</tbody>
</table>

Figure 4

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
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</thead>
<tbody>
<tr>
<td>EVT221</td>
<td>5m</td>
</tr>
<tr>
<td>EVT223</td>
<td>10m</td>
</tr>
</tbody>
</table>

Figure 5

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
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</thead>
<tbody>
<tr>
<td>E18447</td>
<td>5m</td>
</tr>
<tr>
<td>E18449</td>
<td>10m</td>
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</table>

Figure 6

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dimension “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>E18446</td>
<td>5m</td>
</tr>
<tr>
<td>E18448</td>
<td>10m</td>
</tr>
</tbody>
</table>
Accessories: Adapter, Mounting Brackets

**ST08A axial bracket**
Angular mounting bracket for M8 (8 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST08A</td>
<td>$1.00</td>
<td>Zinc-plated steel mounting bracket for M8 sensors axial, 1/pk</td>
</tr>
</tbody>
</table>

**ST08A7W**
316 L stainless steel axial bracket for 12 mm sensors, 1/pk

**ST08C right-angle bracket**
Mounting M8 (8 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST08C</td>
<td>$1.00</td>
<td>Zinc-plated steel mounting bracket for M8 sensors right angle, 1/pk</td>
</tr>
</tbody>
</table>

**ST08C7W**
316 L stainless steel right angle bracket for M8 sensors, 1/pk

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**ST12A axial bracket**
Angular mounting bracket for M12 (12 mm) sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

**ST12A7W**
316 L stainless steel axial bracket for 12 mm sensors, 1/pk

**ST12C right-angle bracket**
Angular mounting bracket for use with M12 (12 mm) sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

**ST12C7W**
316 L stainless steel right angle bracket for 12 mm sensors, 1/pk

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**All Dimensions**

**ST08A axial bracket**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST08A</td>
<td>$1.00</td>
<td>Zinc-plated iron axial bracket for M8 sensors axial, 1/pk</td>
</tr>
</tbody>
</table>

**ST08A7W**
316 L stainless steel axial bracket for 12 mm sensors, 1/pk

---

**ST12A axial bracket**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST12A</td>
<td>$2.00</td>
<td>Zinc-plated iron axial bracket for M8 sensors axial, 1/pk</td>
</tr>
</tbody>
</table>

**ST12A7W**
316 L stainless steel axial bracket for 12 mm sensors, 1/pk

---

**ST12C right-angle bracket**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST12C</td>
<td>$2.00</td>
<td>Zinc-plated iron right angle bracket for M8 sensors right angle, 1/pk</td>
</tr>
</tbody>
</table>

**ST12C7W**
316 L stainless steel right angle bracket for M8 sensors, 1/pk

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See our website: www.automationdirect.com for complete engineering drawings.
Accessories: Mounting Brackets

**ST18A axial bracket**
Mounting bracket for M18 (18 mm) sensors. Has two mounting holes (use 4 mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST18A</td>
<td>$1.25</td>
<td>Zinc plated iron axial bracket for 18 mm sensors, 1/pk</td>
</tr>
<tr>
<td>ST18A7W</td>
<td>$6.00</td>
<td>316 L stainless steel axial bracket for 18 mm sensors, 1/pk</td>
</tr>
</tbody>
</table>

**ST18C right-angle bracket**
Angular mounting bracket for M18 (18 mm) sensors. Has two mounting holes (use 4 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST18C</td>
<td>$1.25</td>
<td>Zinc plated iron right-angle bracket for 18 mm sensors, 1/pk</td>
</tr>
<tr>
<td>ST18C7W</td>
<td>$6.00</td>
<td>316 L stainless steel right-angle bracket for 18 mm sensors, 1/pk</td>
</tr>
</tbody>
</table>

**ST30A axial bracket**
Mounting M30 (30 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST30A</td>
<td>$2.25</td>
<td>Zinc plated iron axial bracket for 30 mm sensors, 1/pk</td>
</tr>
</tbody>
</table>

**ST30C right-angle bracket**
Angular mounting bracket for M30 (30 mm) sensors. Has two mounting holes (use 5 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST30C</td>
<td>$2.25</td>
<td>Zinc plated iron right-angle bracket for 30 mm sensors, 1/pk</td>
</tr>
</tbody>
</table>

Prices as of April 27, 2016. Check Web site for most current prices.