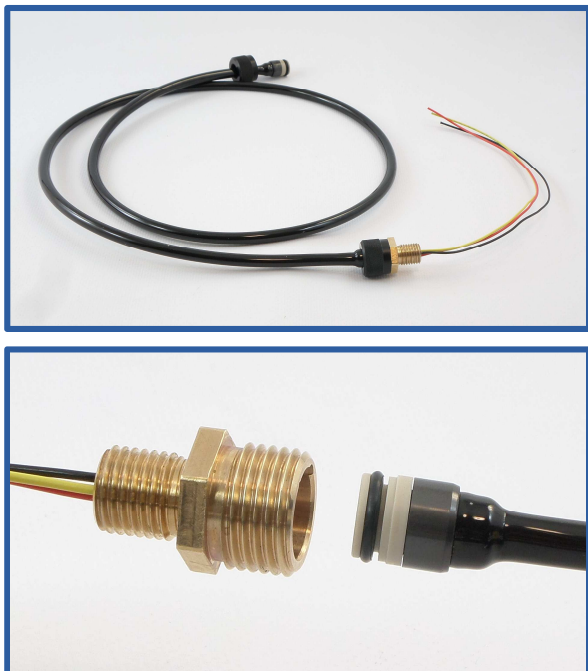


# Low-Profile Connector (LPC) Series

## Underwater Connectors and Cables

### Features



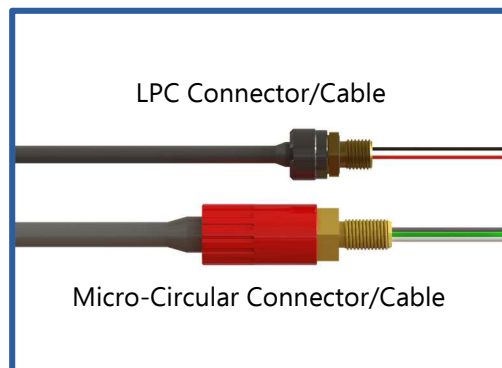
- Compact, affordable system of bulkhead connectors and cables
- Ideal for autonomous boats, ROVs, underwater instruments, and other extreme-environment applications
- Submersible up to 600 meters
- Engineered for months of exposure in seawater or fresh water
- Corrosion-resistant brass, acetal, PEEK, and polyurethane materials
- Cable jacket is bondable with urethane adhesives
- 3-conductor and 6-conductor versions available
- Cables available with connectors on both ends or one end only
- Locking sleeves included with cables

### Description

The LPC series of connectors and cables fills the need for an affordable, compact system of electrical connectors for use in underwater and other extreme-environment applications.

LPC connectors provide reliable electrical connections at depths of up to 600 meters, at a fraction of the size and cost of the industry-standard Micro-Circular connectors.

The LPC bulkhead connector fits in a standard 7/16"-20 threaded hole (or in a 7/16" thru-hole if using the included nut), and is available in 3-pin and 6-pin versions. It can be installed in the wall of any enclosure, provided that the enclosure has a smooth outer surface to seal against the connector's O ring. LPC cables also come in 3-conductor or 6-conductor versions and 1-meter or 2-meter lengths.

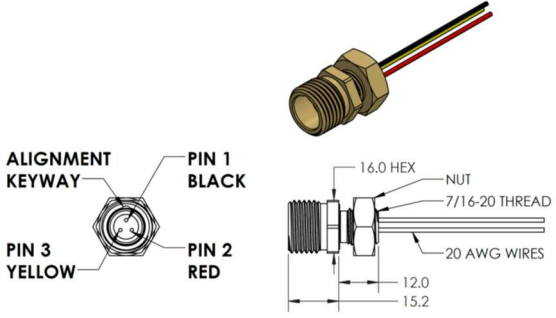
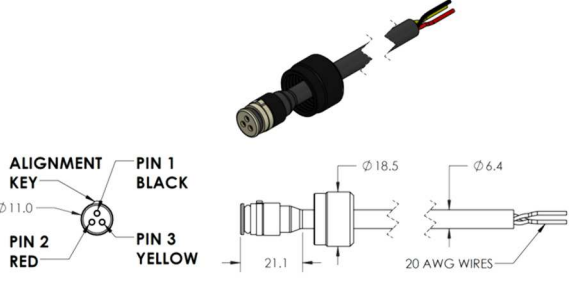
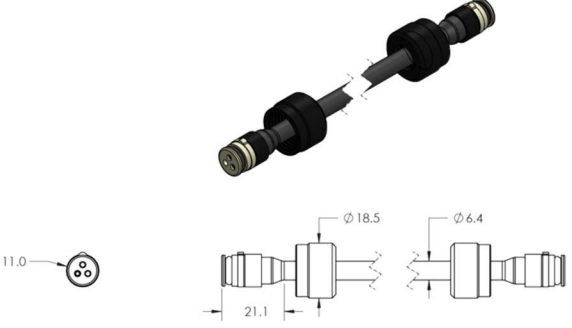


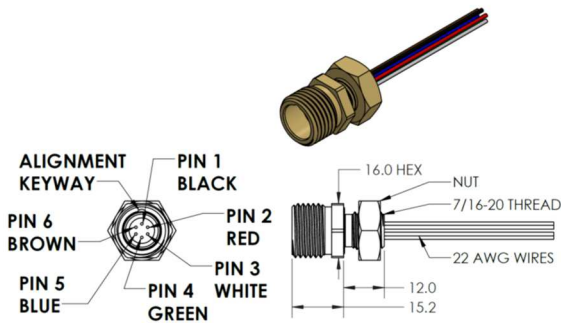
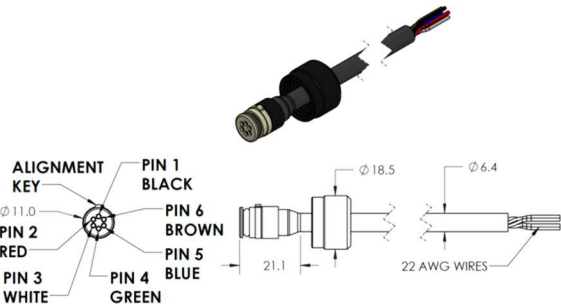
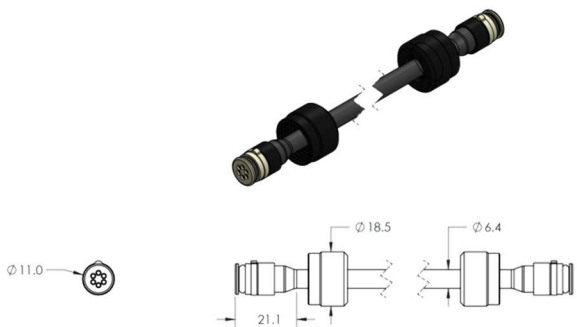
## Specifications

Environmental	
Depth Rating	600 meters
Operating Temperature	0° C to +50° C
Electrical	
Maximum voltage	300 V
Maximum current	3-conductor version: 8 amps, 6-conductor version: 5 amps
Wire size	3-conductor version: 20 AWG, 6-conductor version: 22 AWG
Wire stranding	19/32
Materials	
Bulkhead connector body	360 brass
Bulkhead connector potting	epoxy
Bulkhead connector pins	gold-plated brass
Cable jacket	polyurethane
Cable sockets	tin-plated shell with gold-plated contact
Cable wire insulation	ETFE
Cable connector body	PEEK
O ring	nitrile
Locking sleeve	acetal
Dimensions	
Bulkhead connector threads	7/16"-20
Bulkhead connector hex	16 mm
Locking sleeve threads	M16 X 1.5
Cable outer diameter	6.4 mm

## Options

Available parts are tabulated below.

<p><b>LPC-1130</b></p>  <p>ALIGNMENT KEYWAY</p> <p>PIN 1 BLACK</p> <p>PIN 2 RED</p> <p>PIN 3 YELLOW</p> <p>16.0 HEX</p> <p>NUT</p> <p>7/16-20 THREAD</p> <p>20 AWG WIRES</p> <p>12.0</p> <p>15.2</p>	<ul style="list-style-type: none"> <li>• Corrosion-resistant brass bulkhead connector</li> <li>• Install in 7/16-20 threaded hole or 7/16" thru hole</li> <li>• Includes brass nut</li> <li>• 3 conductors</li> </ul>
<p><b>LPC-1231 (1m length), LPC-1232 (2m length)</b></p>  <p>ALIGNMENT KEY</p> <p>PIN 1 BLACK</p> <p>PIN 2 RED</p> <p>PIN 3 YELLOW</p> <p>21.1</p> <p>18.5</p> <p>6.4</p> <p>20 AWG WIRES</p>	<ul style="list-style-type: none"> <li>• Single-ended cable compatible with LPC-1130</li> <li>• Corrosion-free PEEK connector body and acetal locking sleeve (included)</li> <li>• Unterminated end of polyurethane cable can be bonded or potted with urethane adhesives</li> <li>• 3 conductors</li> </ul>
<p><b>LPC-1331 (1m length), LPC-1332 (2m length)</b></p>  <p>21.1</p> <p>18.5</p> <p>6.4</p>	<ul style="list-style-type: none"> <li>• Double-ended cable compatible with LPC-1130</li> <li>• Corrosion-free PEEK connector bodies and acetal locking sleeves (included)</li> <li>• 3 conductors</li> </ul>

<p style="text-align: center;"><b>LPC-1160</b></p> 	<ul style="list-style-type: none"> <li>• Corrosion-resistant brass bulkhead connector</li> <li>• Install in 7/16-20 threaded hole or 7/16" thru hole</li> <li>• Includes brass nut</li> <li>• 6 conductors</li> </ul>
<p style="text-align: center;"><b>LPC-1261 (1m length), LPC-1262 (2m length)</b></p> 	<ul style="list-style-type: none"> <li>• Single-ended cable compatible with LPC-1160</li> <li>• Corrosion-free PEEK connector body and acetal locking sleeve (included)</li> <li>• Unterminated end of polyurethane cable can be bonded or potted with urethane adhesives</li> <li>• 6 conductors</li> </ul>
<p style="text-align: center;"><b>LPC-1361 (1m length), LPC-1362 (2m length)</b></p> 	<ul style="list-style-type: none"> <li>• Double-ended cable compatible with LPC-1160</li> <li>• Corrosion-free PEEK connector bodies and acetal locking sleeves (included)</li> <li>• 6 conductors</li> </ul>