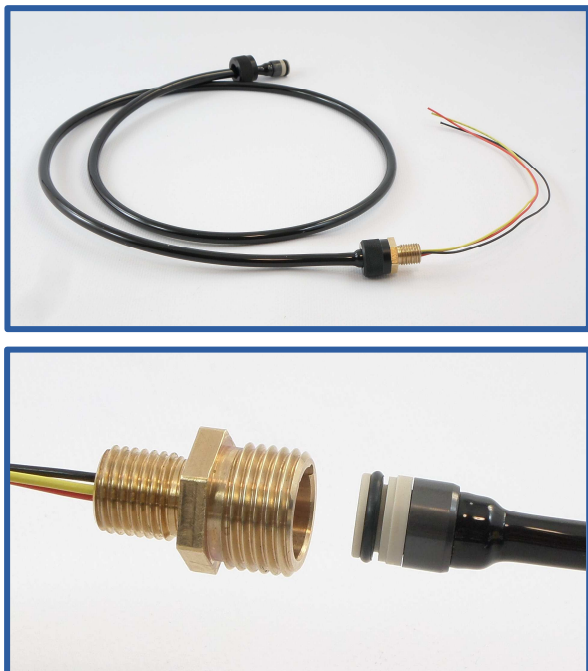


Low-Profile Connector (LPC) Series

Underwater Connectors and Cables

Features



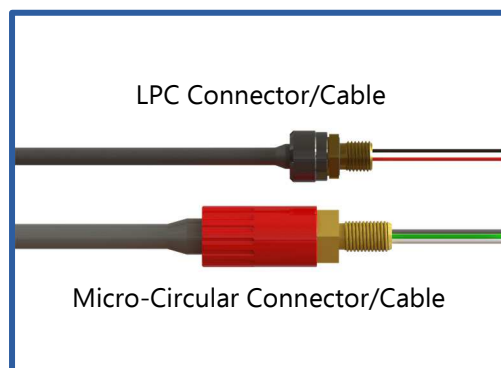
- Compact, affordable system of bulkhead connectors and cables
- Ideal for autonomous boats, ROVs, underwater instruments, and other extreme-environment applications
- Submersible up to 600 meters
- Engineered for months of exposure in seawater or fresh water
- Corrosion-resistant brass, acetal, PEEK, and polyurethane materials
- Cable jacket is bondable with urethane adhesives
- 3 conductors
- 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 a 3-pin version. 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 come in 1-meter or 2-meter lengths.

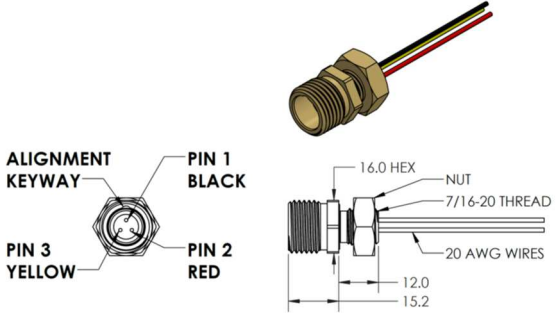
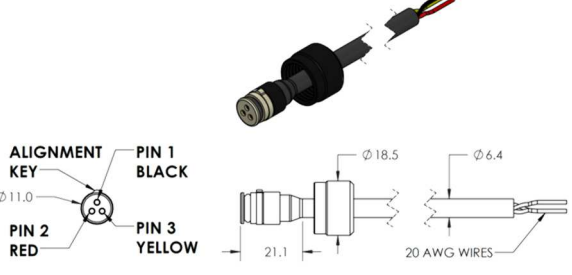
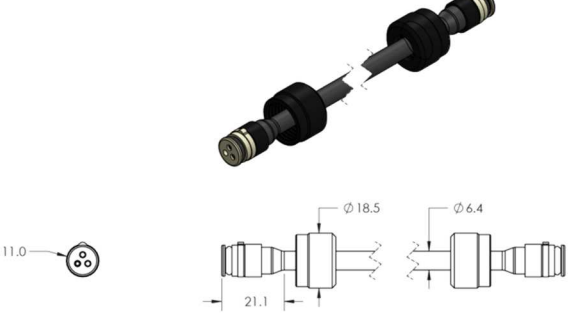


Specifications

Environmental	
Depth Rating	600 meters
Operating Temperature	0° C to +50° C
Electrical	
Maximum voltage	300 V
Maximum current	8 amps
Wire size	20 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>LPC-1130</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"> • Corrosion-resistant brass bulkhead connector • Install in 7/16-20 threaded hole or 7/16" thru hole • Includes brass nut • 3 conductors
<p>LPC-1231 (1m length), LPC-1232 (2m length)</p>  <p>ALIGNMENT KEY</p> <p>PIN 1 BLACK</p> <p>PIN 2 RED</p> <p>PIN 3 YELLOW</p> <p>11.0</p> <p>21.1</p> <p>18.5</p> <p>6.4</p> <p>20 AWG WIRES</p>	<ul style="list-style-type: none"> • Single-ended cable compatible with LPC-1130 • Corrosion-free PEEK connector body and acetal locking sleeve (included) • Unterminated end of polyurethane cable can be bonded or potted with urethane adhesives • 3 conductors
<p>LPC-1331 (1m length), LPC-1332 (2m length)</p>  <p>11.0</p> <p>21.1</p> <p>18.5</p> <p>6.4</p>	<ul style="list-style-type: none"> • Double-ended cable compatible with LPC-1130 • Corrosion-free PEEK connector bodies and acetal locking sleeves (included) • 3 conductors