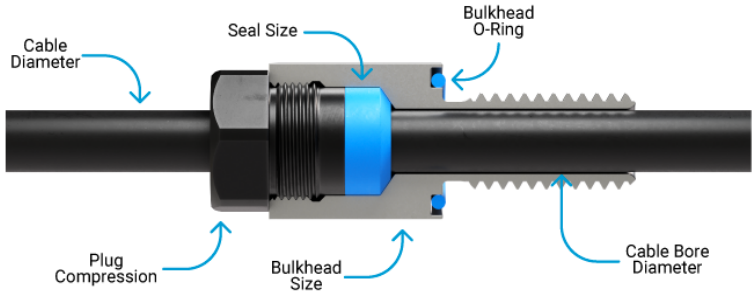


Performance Characteristics ¹

Depth Rating (without cable extrusion)	100 msw / 328 ftsw @ 40°C
Maximum Depth ²	up to 950 msw / 3116 ftsw
Design Lifetime ³	3 years or 500 cycles to rated depth

¹ For reference only. Performance may vary with application and cable construction. The user is responsible for verifying suitability for their application.
² Performance beyond 100 m depends on cable properties and operating conditions. Cable extrusion may occur at higher pressures.
³ Design life was used to define accelerated test conditions and does not represent a warranty period.



Size Index

Seal Size	Bulkhead Size	Cable Bore Diameter [mm]	Plug Compression	Cable Diameter Range ³ [mm]	Part Number
4.5	M10	3.3 mm	High (HC)	3.7 – 4.3	BR-107163-145
			Low (LC)	4.2 – 4.8	BR-107163-045
5.5	M10	4.0 mm	High (HC)	4.7 – 5.3	BR-107163-155
			Low (LC)	5.2 – 5.7	BR-107163-055
6.5	M10	4.8 mm	High (HC)	5.7 – 6.3	BR-107163-165
			Low (LC)	6.2 – 6.7	BR-107163-065

³ Cable diameter range varies for foam jacketed cables, see guides for more details.

Tools

Seal Size	Bulkhead Size	Bulkhead Wrench	Bulkhead/Nut Flat Size	Bulkhead Torque	Plug Wrench	Plug Hex Size	Plug Torque
4.5	M10	BR-100977-010	16 mm	3.5 N·m	BR-100369-011	11 mm	14 N·m
5.5, 6.5	M10	BR-100977-010	16 mm	3.5 N·m	BR-100369-014	14 mm	14 N·m

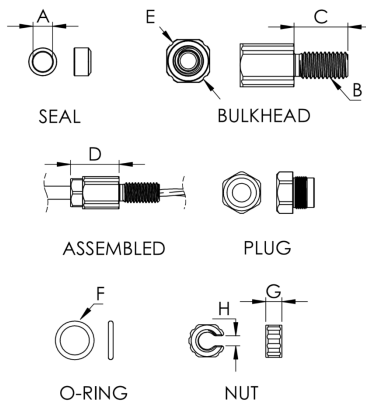
Tested Cables

Compatible WLP JPT Part Number	Cable Part Name / Number	Application	Cable Diameter [mm]	Jacket Material	Conductors	Rec Max Temp ¹	Rec. Max Depth @ 20°C	Rec. Max Depth @ 40°C	Cable Extrusion ²
BR-107163-145	Fathom Slim Tether (BR-100638)	Tether	4.0	PUR Foam	1x UTP 26AWG	50°C	950 msw	500 msw	< 1 mm
BR-107163-045	Lumen/Gripper Cable (BR-101050)	Power / PWM	4.5	PUR	3x 22AWG	60°C	950 msw	500 msw	< 3 mm
BR-107163-155	Ping Cable (BR-100452)	Power / Serial	4.5	PUR	4x 24AWG	60°C	300 msw	100 msw	< 3 mm
BR-107163-055	Ping 360 Cable (BR-100452)	Power / Ethernet	5.5	PUR	3x UTP 26AWG	50°C	950 msw	100 msw	< 3 mm
BR-107163-065	T200 Thruster Cable (BR-100997)	Power	6.4	PUR	3x 16AWG	60°C	300 msw	100 msw	< 2 mm

¹ Sustained high temperatures or current can lead to performance loss over long periods of time.
² After 300 cycles. Extrusion does not cause a leak. If left unmitigated, extrusion will continue with repeated dive cycles.

Physical Properties

Property	M10
Bulkhead Size	M10
Seal Sizes (A)	4.5, 5.5, 6.5
Bulkhead Thread (B)	M10 x 1.5
Bulkhead Thread Length (C)	20 mm
Recommended Bulkhead Through Hole Size	10 – 10.2 mm
Assembled Height from Endcap (D)	18 – 26 mm
Overall Outer Diameter (E)	18 mm
O-ring Size (F)	-013 Buna-N 70A
Nut Height (G)	8 mm
Nut Slot Width (H)	5 mm
Assembled air weight (no cable)	13.9 – 15.6 g
Assembled water weight (no cable)	10.2 – 10.7 g
Seal Material	FKM
Seal Material Temperature Range	-25°C to 200°C
Bulkhead & Plug Material	7075-T6 Aluminium



Test Procedure

Number of Cycles	500 cycles
Water Temperatures at Pressure	2°C to 40°C
Temperature Shock Cycling in Air	-30°C to 70°C
Cable Axial Strain (10 cycles)	4.5 kg
Cable Radial & Torsional Straining	✓
Tested Current at Pressure (if applicable)	✓
1000V Hipot Test & Continuity Test	✓
Accelerated Age Test	✓

Test values shown for reference only. The user is responsible for verifying suitability for their application.