

Optec's IP68 LC Cabling provides you the toughest LC fiber optic interconnection. The bayonet locking design with IP68 rated gives strong protection in harsh environment, providing excellent optical performance, which can employ in FTTH, base stations, transportation, railway systems and industrial networks.

Optec offers duplex LC connector with IP68 outer housing which can be followed by your required cable length and fiber mode to satisfy your operation.



Features and Applications

Bayonet lock design with built-in global standard LC type connector

Fulfills waterproof property (IP68) for extreme environment applications

Push & pull connector with external housing holding

Provides water and dust protection in Railway system, outdoor environment, Medical equipment and Industrial equipment

LC plug latch function

Avoids in ferrule end faces scratch for maintaining high optical performance

No special tool used in installation

Ease of installation

High corrosion resistance (Salt spray: 1000h) and Straight Pull: typical 200N or more (7mm diameter, cable with strength member)

High performance in harsh environments such as wet, high vibration or corrosive environment

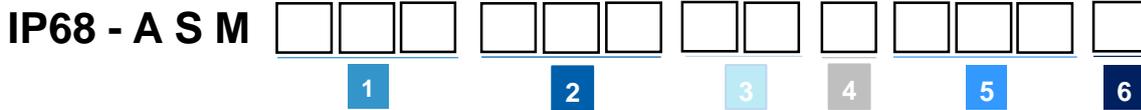
Specifications

Specifications of Connector		
Mating Mechanism	Bayonet	
Ingress Protection	IP-68	
Operating Temperature	-40 C ~ +70 C	
Mechanical Performance	Straight pulling force 25 Kgs *	
Mating Durability	500 mating cycles	
Specifications of Assemblies		
Connector	Performance	Return Loss (RL) **
Standard LC	Insertion Loss (IL) ** ≤ 0.30dB (Typical 0.10dB)	SM/UPC ≥ 55dB MM/PC ≥ 25dB

* Pulling strength may varies depending on choice of cable, guarantee straight pulling force of 25kgs if using Optec's pre-terminated solution

** Optec's assemblies are provided in multi-tier performance to cater for different needs, please contact our sales team for more details

Ordering Information – LC Assemblies



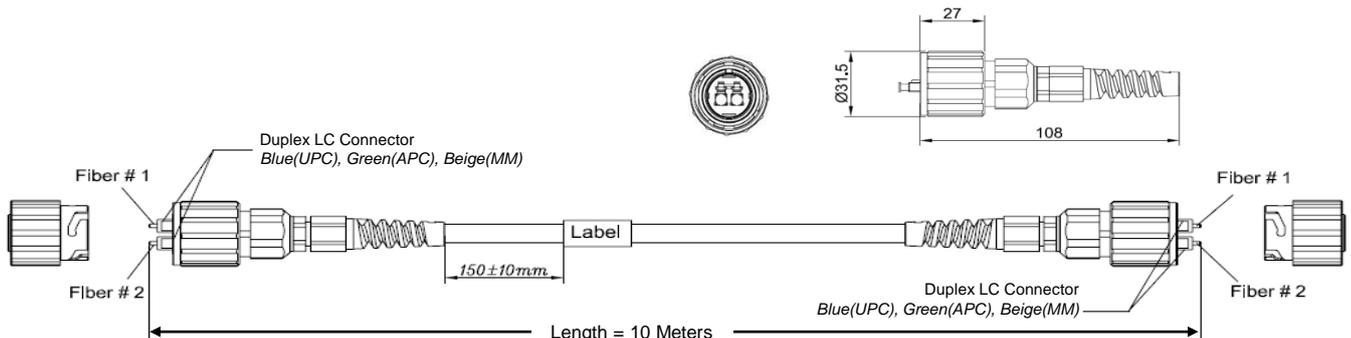
- 1 Connector Interface**
IDL = IP68 Duplex LC
- 2 2nd Connector**
IDL = IP68 Duplex LC
DLC = Duplex LC (normal LC)
- 3 Fiber Mode**
SM = OS1/OS2 Singlemode 9/125µm
M1 = OM1 Multimode 62.5/125µm
M2 = OM2 Multimode 50/125µm
M3 = OM3 Multimode 50/125µm – 10Gig 300
M4 = OM4 Multimode 50/125µm – 10Gig 550
- 4 Fiber Count/ Boot Type**
1 = 2-Fiber / Standard Boot
2 = 2-Fiber / Short Boot
- 5 Cable Length**
XXX = 001 to 999
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1p5 = 1.5 (“p” refer to decimal place)
- 6 Unit of Measure**
F = Feet
N = Inch
M = Meter
C = Centimeter

Remarks

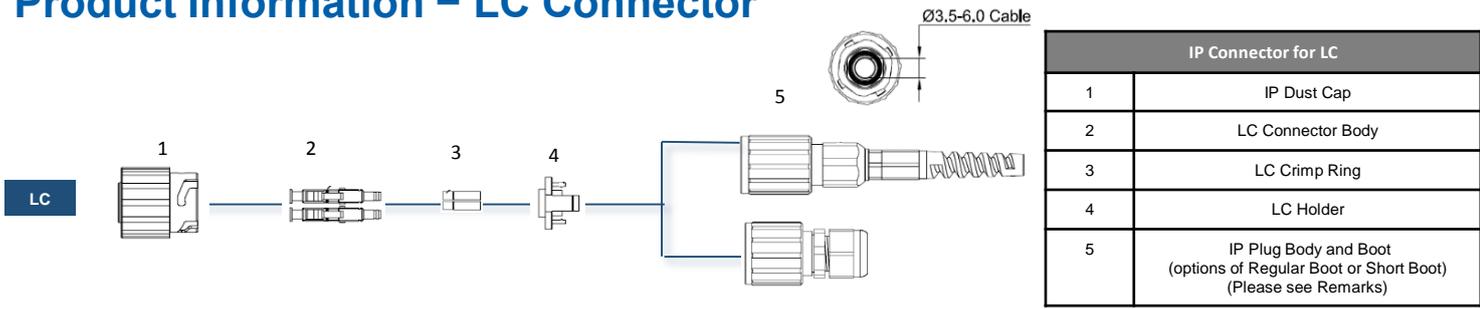
Connector Type / Housing Color	Connector Type		
	Duplex LC	MTP	Elite-MTP
Singlemode APC	Green	Green	Yellow
Singlemode UPC	Blue	N/A	N/A
Multimode OM1/OM2	Beige	Beige	N/A
Multimode OM3	Beige	Aqua	Aqua
Multimode OM4	Beige	Magenta	Magenta

Product Illustration

Example: **Ordering code :** IP68-ASM-IDL-IDL-SM-1-010-M
Item Description: IP68 Connector Assemblies,
 IP68-Duplex LC to IP68-Duplex LC, Singlemode, 2-Fiber, Standard Boot, 10 meters



Product Information – LC Connector



Remark:

Regular Boot

- Overall length after assembled of connector plug is 108mm
- Strain-relief boot design provides extra protection on cable bending
- Suitable for installation where no space constrains

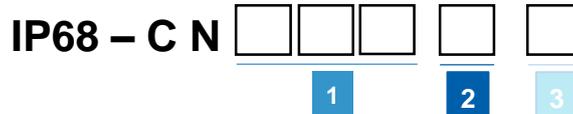


Short Boot

- Overall length after assembled of connector plug is 57mm
- Suitable for installation where limited space applied



Ordering Information



1 Connector Interface
IDC = IP68 Duplex LC

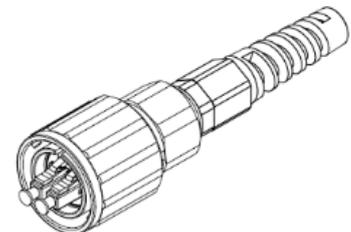
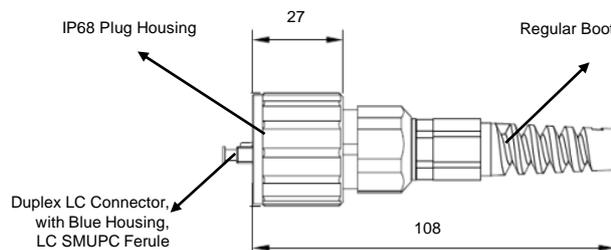
2 Connector Housing / Ferrule
For Duplex LC
1 = Blue / SMUPC (for OS1/2)
2 = Green / SMAPC (for OS1/2)
3 = Beige / MMPC (for OM1/2/3/4)

3 Boot Type
1 = Regular Boot
2 = Short Boot

Product Illustration

Example:

Ordering code : IP68-CN-IDC-1-1
Item Description: IP68 Connector for Duplex LC, Blue Housing with SMUPC Ferrule, Regular Boot



Product Information – LC Receptacles

	<p>Features / Installation Method</p> <ul style="list-style-type: none"> • Insert from panel's rear, then fit the hexagon flange from panel's front • No extra tools required during installation • Delivers excellent waterproof performance as no screw holes exist 	<p>Side View</p>	<p>Front View (LC Duplex)</p>	<p>Front View (MTP)</p>	<p>Overall Diameter</p>	<p>Mounting Hole</p>
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	<p>Features / Installation Method</p> <ul style="list-style-type: none"> • 4-point screws fixed type • Mount from panel's front by fixing 4x screws • Easily installable or dismantle from front end of the panel • Screwdriver is required during installation 	<p>Side View</p>	<p>Front View (LC Duplex)</p>	<p>Front View (MTP)</p>	<p>Mounting Hole</p>
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Ordering Information

IP68 – R C

1 2

- 1** Receptacle Type
- 2 = Duplex LC – Blue Adapter Housing (For Singlemode OS1/OS2)
 - 3 = Duplex LC – Beige Adapter Housing (For Multimode OM1/OM2)
 - 4 = Duplex LC – Aqua Adapter Housing (For Multimode OM3/OM4)

- 2** Connector Housing / Ferrule
- H = Hexagon Flange
 - S = Square Shape

Product Illustration

Example: **Ordering code :** IP68-RC-4-S
Item Description: IP68 Receptacle for Duplex LC, MM OM3/OM4 Aqua Adapter Housing, Square Flange

