

cannon

# PL Series

Plastic Push Pull Interconnects



**ITT**

ENGINEERED FOR LIFE

# We Connect

## When it matters most

For more than a century, ITT Cannon has developed innovative interconnect solutions for the world's most critical applications. With facilities in the United States, Germany, Italy, Mexico, China and Japan, each with its unique strengths, we offer our customers interconnect solutions that are truly Engineered for Life.

In addition to this truly global footprint, we offer highly specialized, segmented industry expertise. We have a proven track record as an industry leader in medical and industrial applications. This has equipped us with the knowledge needed to continue to produce the most advanced, resilient and reliable connectors for our customers' most challenging conditions.

## Connecting the world's most important information with those who need it.

Drawing upon nearly 50 years of global presence in the medical industry, ITT Cannon represents a committed partner to medical equipment manufacturers, bringing connector solutions to the applications that help change lives every day.

### The ITT Cannon difference

- Global capabilities & local support
- Proven application expertise
- A century of interconnect leadership
- A committed innovator & business partner

### About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information, visit [www.itt.com](http://www.itt.com).



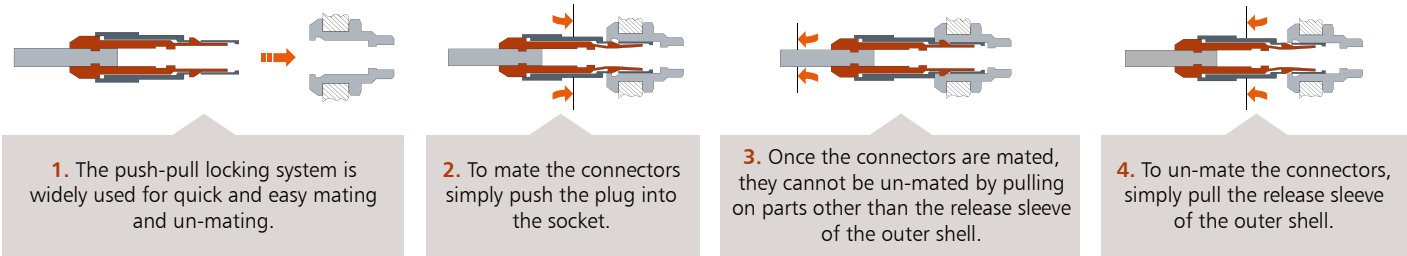
# PL Series product overview

## PL Series performance data

Operating temperature range	PSU: -50 to 150° C (Standard offering) PEI: -50 to 170° C (Contact ITT Cannon)
Current rating	2 to 10A
Insulation resistance	10 <sup>12</sup> Ω
Voltage	0.6 to 1.2 kV rws

Ingress protection	IP50
Durability	In excess of 2,000 cycles
Sterilization capability	Can be sterilized by gas or steam
Certifications	UL Certified RoHS compliant

## PL Series Push Pull latching system.

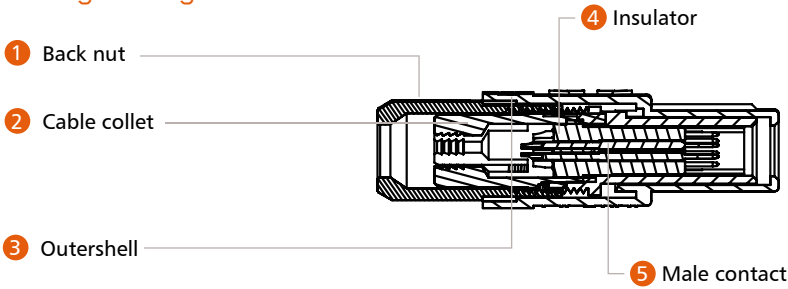


## Exploded view of PL Series

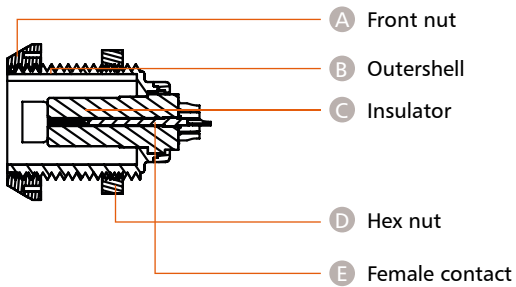
Straight plug					
	Backnut	Cable Collet	Insulator & Contacts	Shell	
Straight plug with bend relief					
	Bend Relief	Bend Relief for a Backnut	Cable Collet	Insulator & Contacts	Shell
Receptacle with back panel mounting					
	Hexagonal Nut	Shell	Front Nut		
In-line receptacle					
	Backnut	Cable Collet	Insulator & Contacts	Shell	
In-line receptacle with bend relief					
	Bend Relief	Bend Relief for a Backnut	Cable Collet	Insulator & Contacts	Shell

# PL Series straight plug and receptacles

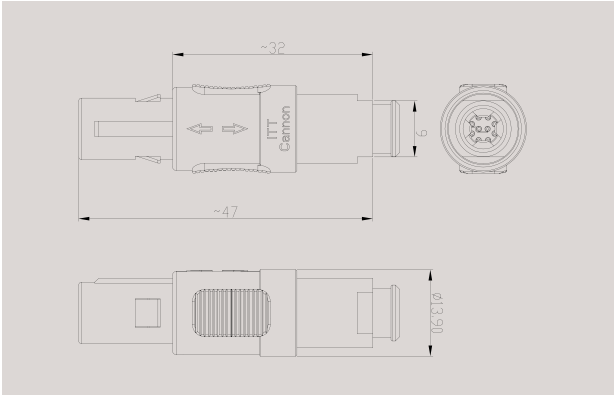
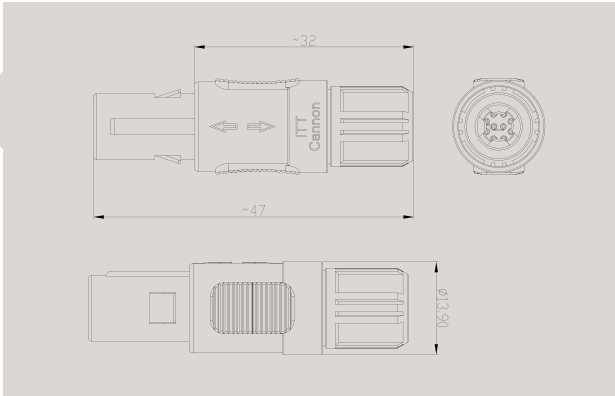
## Straight Plug



## Receptacle



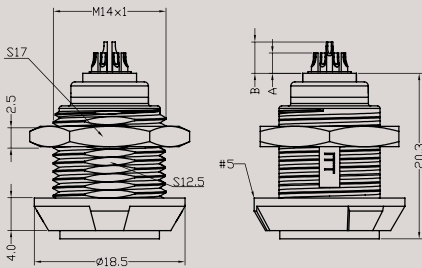
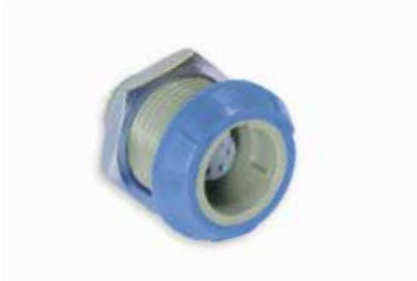
## A1 Straight plug with cable collet



## A3 Straight plug with cable collet and nut for bend relief



## B1 Receptacle with two nuts



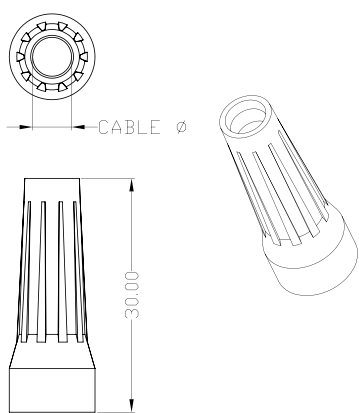
Number of Contacts	Dimensions	
	A	B
02	2.5	-
03		-
04		-
05		-
06		-
07		3.9
08		3.9
09		3.9
10		3.9
14		3.9

Solder to board and crimp contacts are available. Contact ITT Cannon for details.

Dimensions shown in mm

# PL Series bend relief and housing models

## Bend Relief

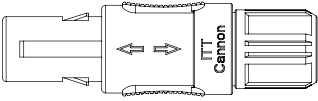


Part Number	Cable Ø (mm)	
	Min.	Max.
025	>2.5	3.0
030	>3.0	3.5
035	>3.5	4.0
040	>4.0	4.5
045	>4.5	5.0
050	>5.0	5.5
055	>5.5	6.0
060	>6.0	6.5

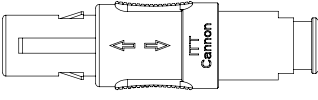
Colour Code	0	2	3	4	5	6	8
Colour	Black	Red	White	Yellow	Green	Blue	Grey

## Housing Models

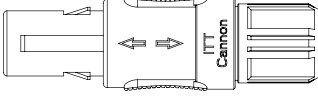
STRAIGHT PLUGS



A1

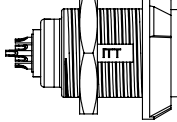


A3

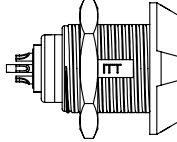


FLUIDIC PLUG

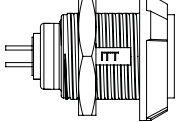
RECEPTACLE



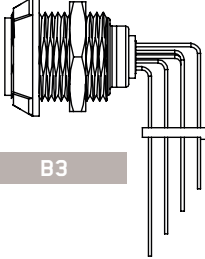
B1



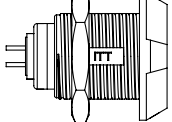
B4



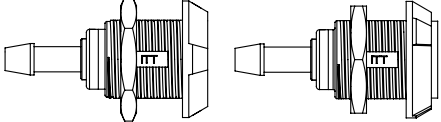
BE



B3

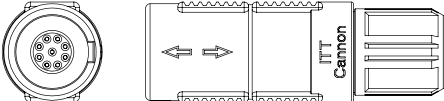


BF

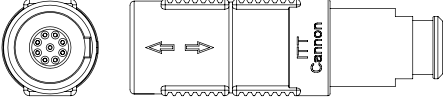


FLUIDIC RECEPTACLE

IN-LINE RECEPTACLE



C1



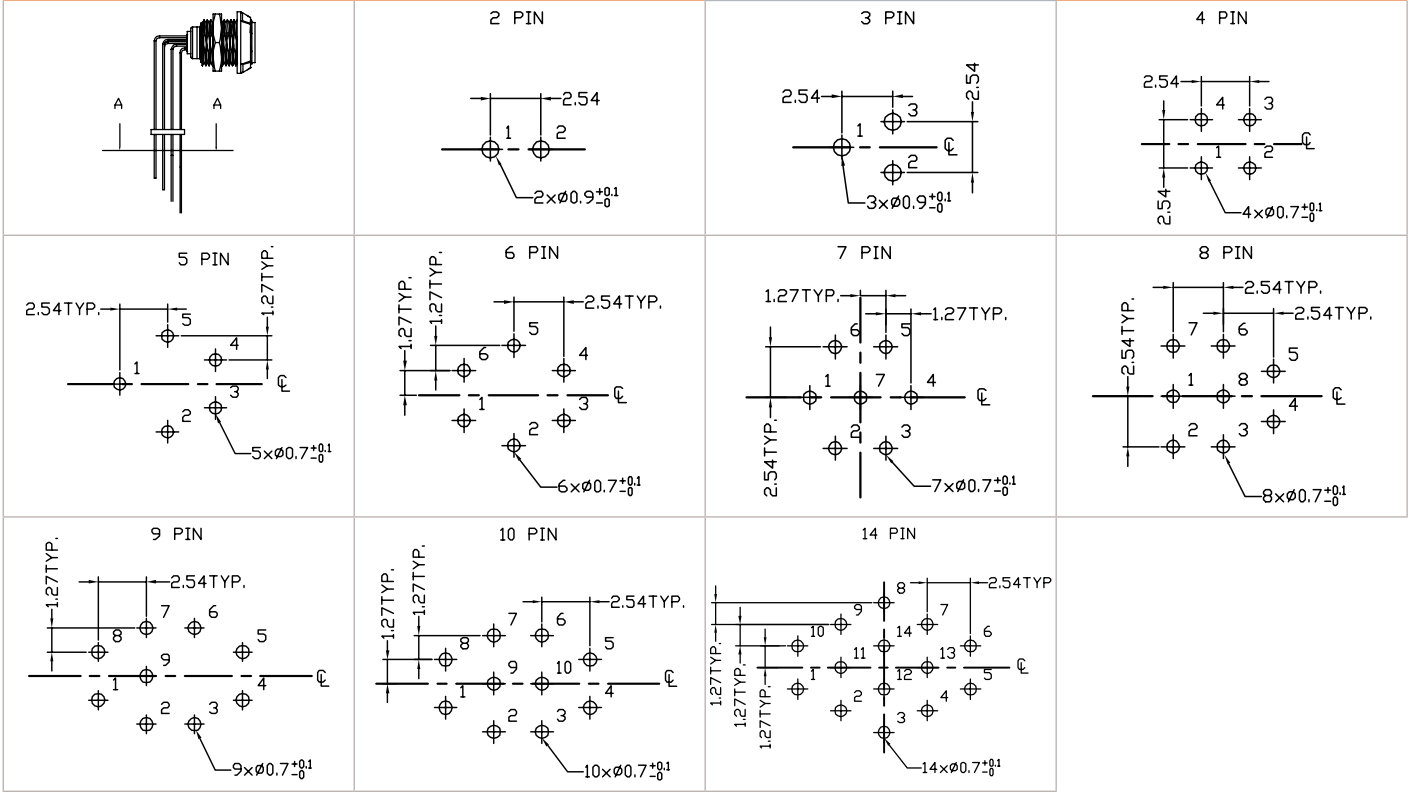
C3

For fluidic, BE and BF options please contact ITT Cannon.

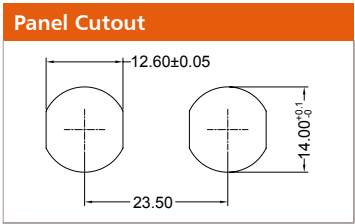
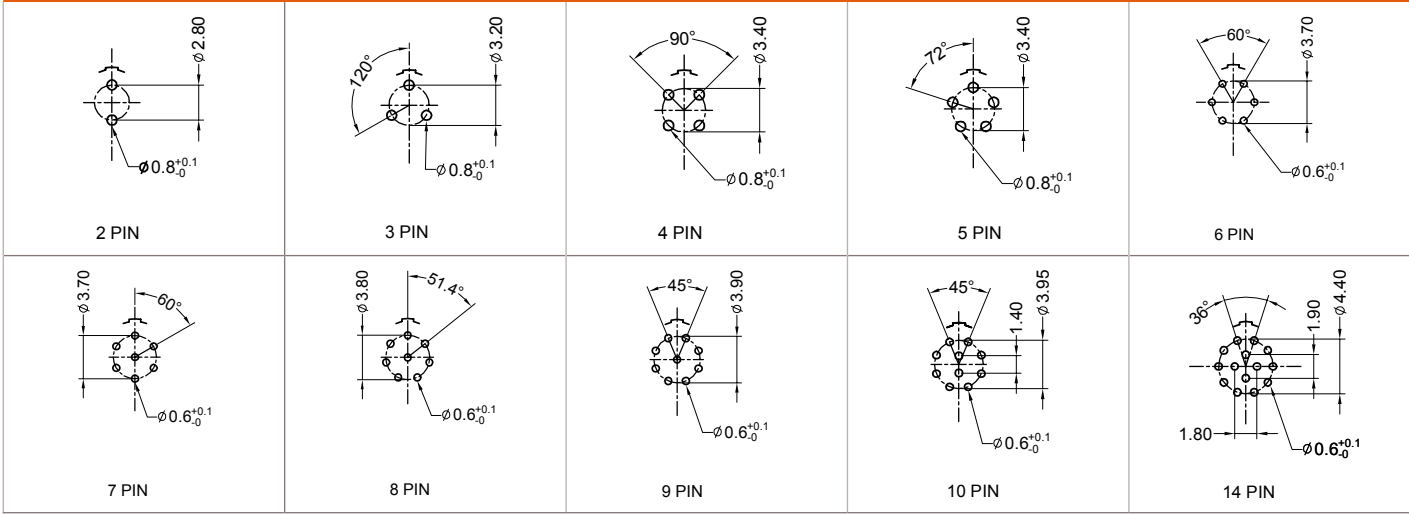
Dimensions shown in mm

# PL Series PCB drilling detail

For 90° Elbow contacts, see from A-A view.



For straight contacts



Dimensions shown in mm

Connect with your ITT Interconnect Solutions representative  
today or visit us at [www.ittcannon.com](http://www.ittcannon.com)

## Connect with the experts

ITT Interconnect Solutions is a world leader in the design and manufacture  
of highly engineered solutions for multiple end markets.



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