

NEW

# 75 Ω Miniature Coaxial Connectors with Push-Pull Lock

## PL76 Series

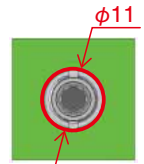
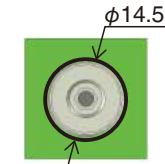


Rated at 75 Ω and 3.2 GHz

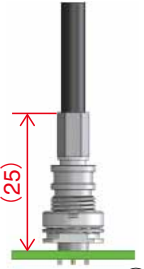
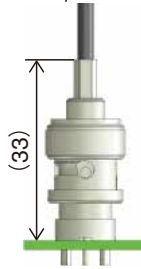
### ●Size Comparison with BNC

Typical BNC connector

PL76



42% reduction in required mounting area



44% height reduction

Fig.①

### ■Features

#### 1. Miniature 75 Ω Push-Pull Lock

Features Hirose's unique positive locking system

#### 2. Top-Touch Mechanism

The top touch mechanism imparts a high degree of precision for reliably matching each side of the connection.

#### 3. 40% downsized compared with BNC type connectors

The diameter is reduced by approx 40%. (See Fig. ①.)

#### 4. Suited for FA cameras using a 75 Ω design

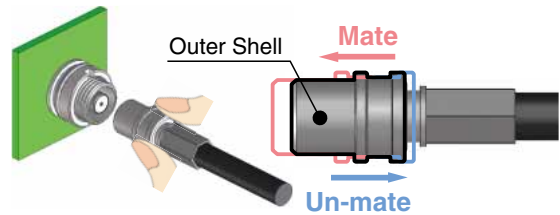
Accepts a 75 Ω impedance, 3.2 GHz bandwidth and 1 A of current

#### 5. RoHS Compliant

All materials and substances used to produce these parts fully comply with RoHS standards.

### ●Mating Operation

No tool is required to mate or un-mate this connector. The outer shell has a smooth function and creates an easy push-pull operation.



### ●Positive Lock

The positive lock will not release unless the outer shell is dis-engaged.

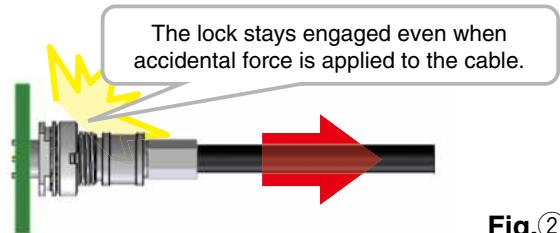


Fig.②

### ■Mating Diagram

#### Plug Side

##### ■Straight Plug

PL76-P-2.5CV



#### Receptacle Side

##### ■Bulkhead Receptacle

PL76-BR-PC  
PL76-BR-PC-1



#### Adapter side

##### ■PL76-HFL Conversion Adapter

PL76J-H.FLJ-BPA  
PL76J-H.FLJ-BPA-1



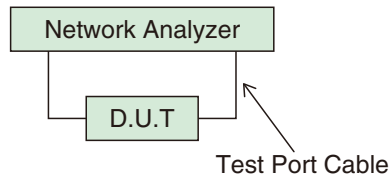
## Product Specifications

Ratings	Characteristic impedance : 75 Ω Frequency Rating : DC to 3.2 GHz Current Rating : 1 A	Operating Temp. Range: -30 to +85°C Operating Humid. Range: 95% or less
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Items	Specifications	Conditions
1. Contact resistance	Center: 15 mΩ Max. Outer: 4 mΩ Max.	Measured at 100 mA or less
2. Insulation resistance	Minimum of 1,000 MΩ	Measured at DC 250 V
3. Withstand voltage	No flashover or breakdown	Apply AC 500 V for 1 minute
4. Voltage standing wave ratio(VSWR)	Maximum of 1.3	DC to 3.2 GHz
5. Durability	Contact resistance Center: 19 mΩ Max. Outer: 10 mΩ or less. No breakage, cracks or loose parts	500 mating cycles
6. Vibration resistance	No electric outage of 1μs or more No magnetic field, cracks or loose parts	10 cycles in each of the 3 axes at a frequency of 10-500 Hz, half amplitude 0.75 mm and acceleration 196 m/s <sup>2</sup>
7. Shock resistance	No electric outage of 1μs or more No breakage, cracks or loose parts	Acceleration 490 m/s <sup>2</sup> , duration 11 ms, half-sine wave, 3 times each for 3 axial directions
8. Moisture-resistance Temperature-humidity cycles	Insulation resistance: Minimum of 10 MΩ (high humidity) Insulation resistance: Minimum of 100 MΩ (low humidity) No breakage, cracks or loose parts	Temperature -10 to 65°C, humidity 90 to 96 % 10 cycles (240 hours)
9. Temperature cycles	No breakage, cracks or loose parts	Temperature: -30°C → — → +85°C → —°C Time: 30 min → 3 min → 30 min → 3 min 5 cycles
10. Salt water spray	No significant corrosions	Continuous 48 hours with 5 % salt water

\* Measurement system for Voltage Standing Wave Ratio (VSWR)

Specification values of VSWR above are those measured on the measurement system set up in the diagram below.



## Materials

Item	Materials	Finish
Shell	Brass	Nickel plating
Insulation	PTFE	—
Male Contact	Brass	Gold plating
Female Contact	Phosphorous bronze	Gold plating

## Product Number Structure

Refer to the chart below for determining specific part number characteristics.

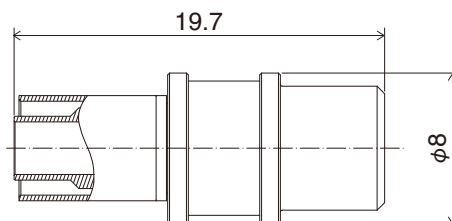
Please select connectors listed in this catalog when placing orders and be sure to check the latest delivery specifications at the time of ordering the product.

**PL76** - [ ] - [ ]

①                      ②                      ③

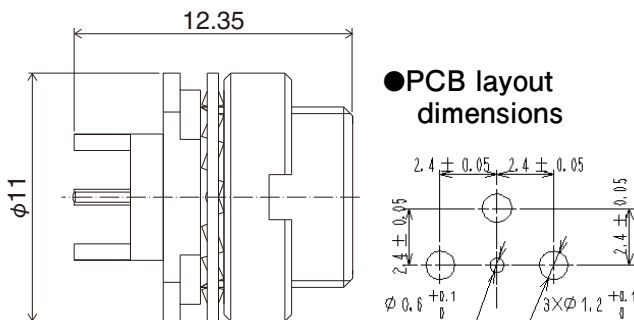
① Series name: PL76
② Connector type P : Straight Plug BR : Bulkhead Receptacle
③ Applicable cables or mounting styles 2.5CV : 2.5C-2V PC : DIP mount to PCB

■ Plug



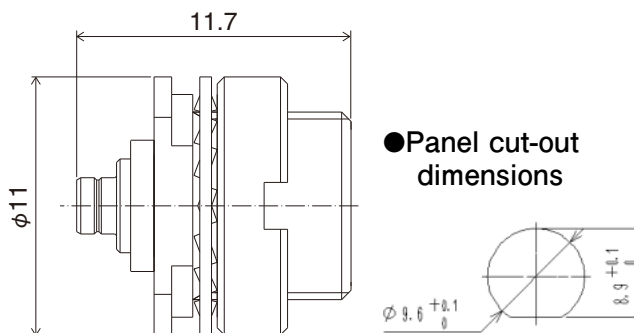
Part No.	HRS No.	Applicable Cables	RoHS
PL76-P-2.5C V	CL334-0087-0	2.5C-2V	○

■ Receptacle



Part No.	HRS No.	Nut Style	RoHS
PL76-BR-PC	CL334-0085-5	Spanner	○
PL76-BR-PC-1	CL334-0086-8	Hexagonal	○

■ Conversion Adapter



Part No.	HRS No.	Nut Style	RoHS
PL76J-H.FLJ-BPA	CL311-0470-2	Spanner	○
PL76J-H.FLJ-BPA-1	CL311-0471-5	Hexagonal	○

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