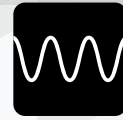


PL75 Series

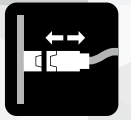
Push-on Lock Coaxial Connectors



RF



75Ω



Push On



Product Page
<https://www.hirose.com/en/product/series/PL75>

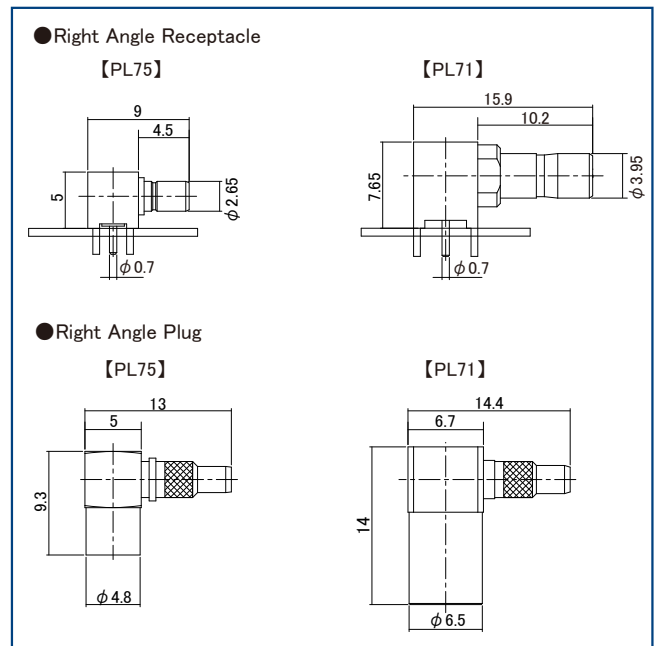
Jul. 2024

May. 1. 2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

Features

1. Ultra Compact

Compared to conventional 75Ω coaxial connectors, this connector achieves a size reduction of approximately 30% (our comparison: PL71 Series), enabling high-density mounting for small equipment. The PCB mounting height of the right angle receptacle is 5mm.



Shape Comparison between PL75 and PL71.

2. Excellent Locking Design

The connection utilizes our unique locking system designed to maintain constant contact with the electrical reference surface (Top Touch). The outer cylinder provides robust protection, ensuring high stability and reliability.

3. Impedance Matching

High-frequency characteristics range from 0 to 3GHz, suitable for 3G-SDI broadcasting equipment.

4. Compatible cables are 1.5C type

The standard compatible cable is the 1.5C type. When combined with our BNC (75) Series, a complete line connection from interface connection to internal wiring is possible.

5. RoHS Compliant

In consideration of environmental issues, this product does not contain substances prohibited by the RoHS Directive.

Applications

3G-SDI, Broadcasting Equipment, for Connecting Video Equipment

Product Specifications

| | | | |
|--------------------------|-------------|-----------------------------|--------------|
| Characteristic Impedance | 75 Ω | Operating Temperature | -30 to +85°C |
| Rated Frequency | 0 to 3GHz | Operating Relative Humidity | 95% Max. |

| Item | Standards | Condition |
|---------------------------------|--|---|
| Contact Resistance | 15m Ω Max. (Center) 6m Ω Max. (External) | Measured at 100mA Max. |
| Insulation Resistance | 1,000M Ω Min. | Measured at 250V DC |
| Withstanding Voltage | No dielectric breakdown | 250V AC for 1 min. |
| V.S.W.R. * | 1.3 Max. | 0 to 3GHz |
| Insertion and Withdrawal Forces | 4.9N Min. | Measured with a Compatible Connector |
| Mating Durability | Contact Resistance : 19m Ω Max. (Center) 10m Ω Max. (External) No damage, cracks or part dislocation. | 500 times |
| Vibration Resistance | No electrical discontinuity of 1 μ s or more No damage, cracks or part dislocation. | Frequency 10 to 500Hz, Half amplitude 0.75mm, Acceleration 98m/s ² 2 hours each in 3-axis direction |
| Shock Resistance | No electrical discontinuity of 1 μ s or more No damage, cracks or part dislocation. | Acceleration 490m/s ² , Duration 11ms, Sine halfwave : 3times each in 3 axial both directions |
| Humidity Resistance | Insulation Resistance : 10M Ω Min. (in a high humidity environment) 1,000M Ω Min. (in a dry environment) No damage, cracks or part dislocation. | Temperature +40°C , Humidity 90 to 95%, for 96 hours |
| Thermal Shock | No damage, cracks or part dislocation. | (-30°C : 30 min. → +5 to +35°C : 5 min. → +85°C : 30 min. → +5 to +35°C : within 5 min) 5 cycles |
| Corrosion Resistance | No corrosion that impairs function. | 5% salt water solution for 48 consecutive hours |

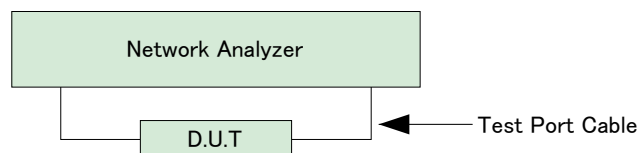
Note 1 : Information contained in this catalog represents general requirements for this Series.

Contact us for the drawings and specifications for a specific part number shown.

Note 2 : Ratings and standards may vary by products.

* V.S.W.R. Measurement System

The above V.S.W.R. specification values were measured using the measurement system shown below.



Note : Cable type connectors were measured with PL75 and BNC(75) of the harness product of a suitable 10cm cable.

Materials / Finish

| Component | Material | Finish |
|-----------------------|--------------------|----------------|
| Shell | Brass | Gold Plating |
| Male Center Contact | Phosphorous Bronze | Gold Plating |
| Female Center Contact | Beryllium Copper | Gold Plating |
| Insulator | PTFE | - |
| Outer Tube | Brass | Nickel Plating |

Product Number Structure




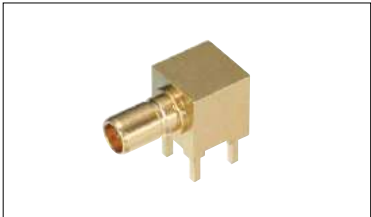
Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

PL75 - [] - []

① ② ③

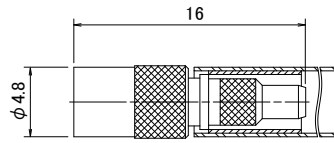
| | | | |
|------------------|--|---|--|
| ① Series Name | PL75 | ③ Compatible Cable or PCB Mounting Method | 1.5CV : 1.5CCA-EXBV(LF) 1.5CW : 1.5C-QEW.CW PC : PCB DIP Mounting Type |
| ② Connector Type | P : Straight Plug LP: Right Angle Plug R : Straight Receptacle LR: Right Angle Receptacle | | |

Functional Diagram

| Plug | Receptacle |
|---|---|
| <p>■ Straight Plug PL75-P-1.5CV</p>  | <p>■ Straight Receptacle PL75-R-PC</p>  |
| <p>■ Right Angle Plug PL75-LP-1.5CV PL75-LP-1.5CW</p>  | <p>■ Right Angle Receptacle PL75-LR-PC</p>  |

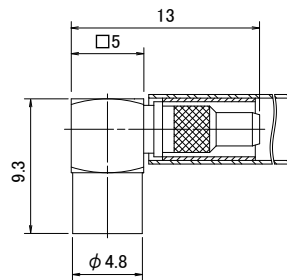
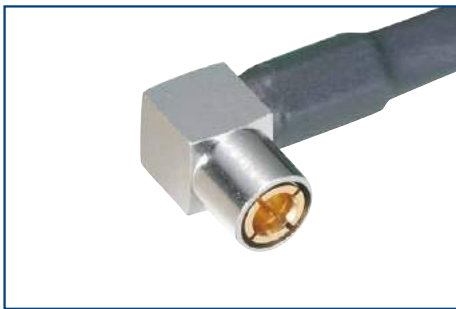
Plug

● Straight



| Part No. | HRS No. | Compatible Cable | Purchase Unit |
|--------------|------------------|------------------|---------------|
| PL75-P-1.5CV | CL0334-0078-0-00 | 1.5CCA-EXBV(LF) | 20pcs per bag |

● Right Angle

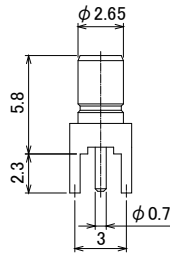
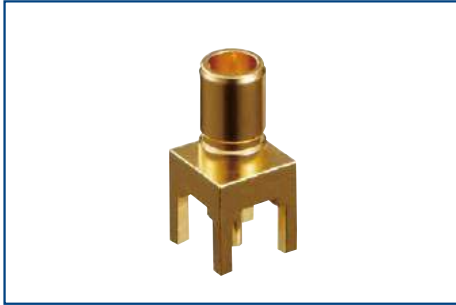


| Part No. | HRS No. | Compatible Cable | Purchase Unit |
|---------------|------------------|------------------|---------------|
| PL75-LP-1.5CV | CL0334-0076-4-00 | 1.5CCA-EXBV(LF) | 20pcs per bag |
| PL75-LP-1.5CW | CL0334-0080-1-00 | 1.5C-QEW.CW | |

May.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

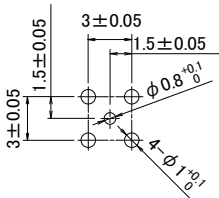
Receptacle

● Straight

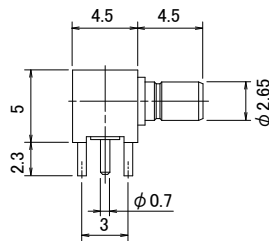
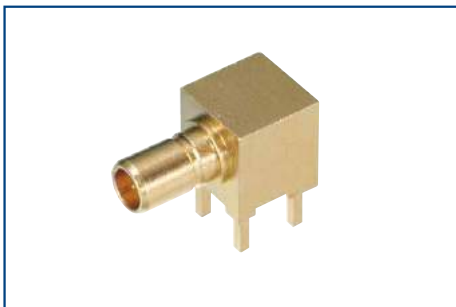


| Part No. | HRS No. | Purchase Unit |
|-----------|------------------|---------------|
| PL75-R-PC | CL0334-0081-4-00 | 20pcs per bag |

■ PCB Mounting Pattern

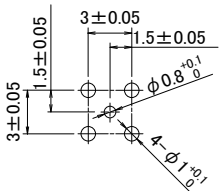


● Right Angle



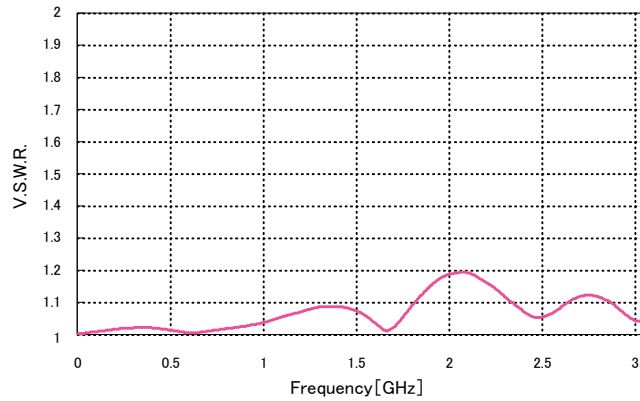
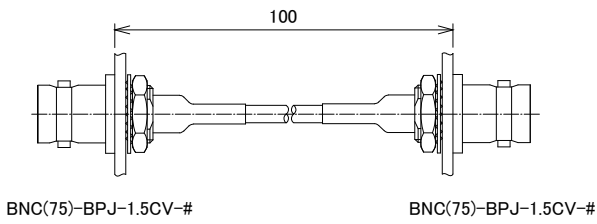
| Part No. | HRS No. | Purchase Unit |
|------------|------------------|---------------|
| PL75-LR-PC | CL0334-0075-1-00 | 20pcs per bag |

■ PCB Mounting Pattern

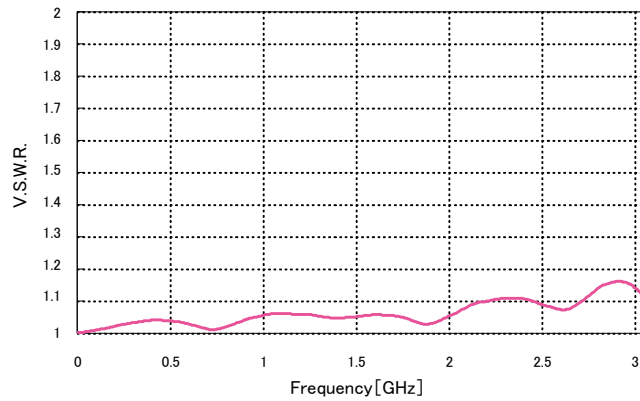
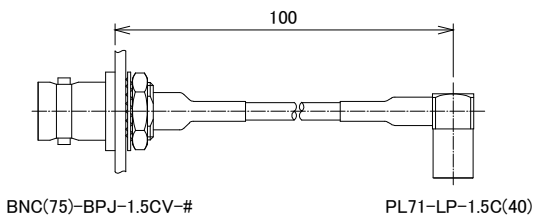


High Frequency Characteristics of 75Ω Hirose Product Series

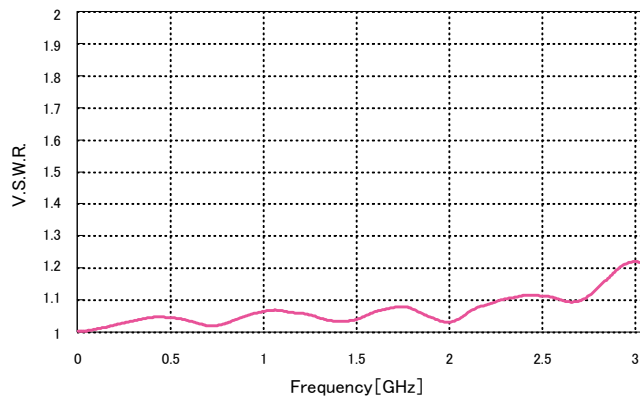
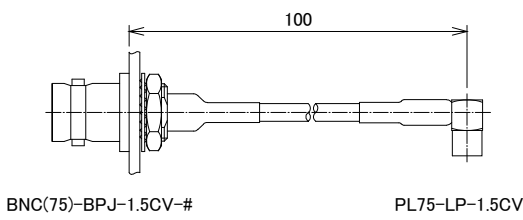
●BNC(75) Series



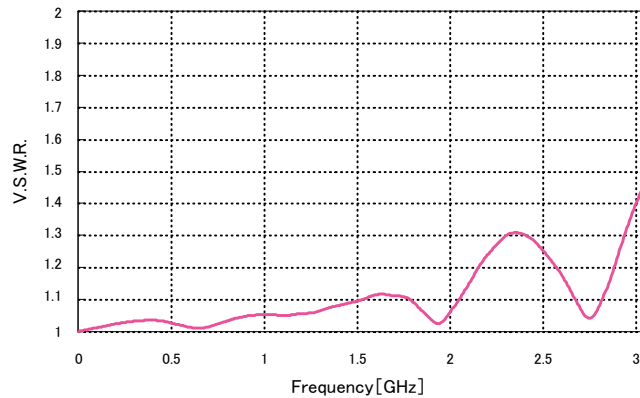
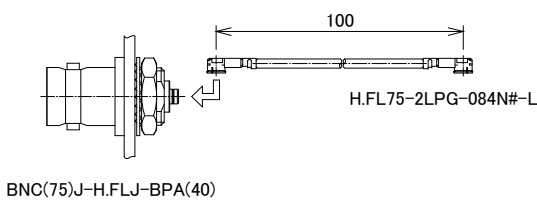
●PL71 Series



●PL75 Series



●H.FL75 Series



May.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/defense etc. Hirose must review before assurance of reliability can be given.