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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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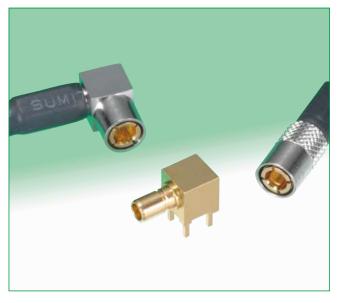


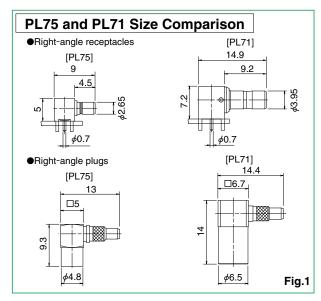




# **Ultra-Miniature Push-on Lock Coaxial Connectors for Digital Broadcasting Applications**

PL75 Series  $75\Omega$  up to 3GHz





### ■Features

#### 1. Further reduction in size

The size is reduced by approximately 30% when compared with PL71 Series, 75 Ohm connectors. Low mounted profile: 5mm.

### 2. Superior locking mechanism

Our exclusive locking method keeps the mating part in constant contact with the electric reference plane (Top Touch), ensuring high contact stability and reliability. The construction is protected by the outer shell.

### 3. Reliable at high frequencies

The high-frequency performance of the PL75 Series is very reliable, with V.S.W.R. characteristics of a maximum of 1.3 at DC, and up to 3 GHz, which is suitable for 3G-SDI broadcasting equipment.

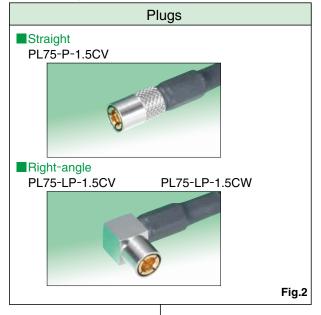
### 4. Applicable cable: 1.5C type

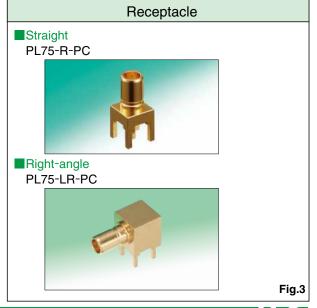
By using together with Hirose's BNC(75) Series connectors,  $75\Omega$  total system lines from the interface connections to the internal wiring system is available.

#### 5.RoHS compliant

All materials and substances used to produce this product comply with RoHS standards.

### ■ Mating Chart



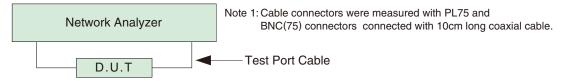


# **■**Specifications

Ratings	Nominal characteristic impedance : 75Ω	Operating temperature range :-30°C to +85°C	
natings	Frequency range : DC to 3 GHz	Operating humidity : RH 95% max.	
Item	Specification	Conditions	
Insulation resistance	1,000 MΩ min.	250 V DC	
2. Withstanding voltage	No flashover or insulation breakdown	250 V AC / 1 minute	
Contact resistance	Center contact : 15 mΩ max.	100 mA max.	
3. Contact resistance	Outer shell: 6 mΩ max.		
4. Center contact retention force	0.2 N min.	Measured with 0.3 mm diameter pin gauge	
5. V.S.W.R. *	1.3max.	DC to 3 GHz	
6. Vibration	No electrical discontinuity of 1 $\mu$ s or longer	Frequency: 10 to 500 Hz, single amplitude of 0.75 mm	
o. Vibration	No damage, cracks, or parts dislocation	acceleration of 98m/s², 2 hours in each of the 3 axis	
	Insulation resistance: 10 M $\Omega$ min. (high humidity)		
7.Moisture resistance	Insulation resistance: 1,000 MΩ min. (dry)	96 hours at +40℃ and humidity of 90% to 95%	
	No damage, cracks, or parts dislocation		
	Contact resistance Center contact : 19 mΩ max.	Temperature: $-30^{\circ}\text{C} \rightarrow +5^{\circ}\text{C}$ to $+35^{\circ}\text{C} \rightarrow +85^{\circ}\text{C} \rightarrow +5^{\circ}\text{C}$	
0 Tamananah ma		to +35℃	
8. Temperature cycle	Outer shell : 10 mΩ max.	Time: 30 min. $\rightarrow$ 5 min.max. $\rightarrow$ 30 min. $\rightarrow$ 5 min.max.	
	No damage, cracks, or parts dislocation	5 cycles	
	Contact resistance: Center contact : 19 mΩ max.		
9. Durability	Outer shell : 10 mΩ max.	500 cycles	
	No damage, cracks, or parts dislocation		
10. Salt spray	No corrosion	5% salt water solution, 48 hours	

#### \* V.S.W.R. Measurement System

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



# ■Materials / Finishes

### **●Plugs**

Part	Material	Finish
Shell	Brass	Gold plated
Male center contact	Phosphor bronze	Gold plated
Female center contact	Beryllium copper	Gold plated
Insulator	PTFE	
Crimp sleeve	Brass	Nickel plated

### Receptacles

Part	Material	Finish
Shell	Brass	Gold plated
Male center contact	Phosphor bronze	Gold plated
Female center contact	Beryllium copper	Gold plated
Insulator	PTFE	

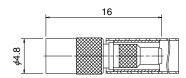
# **■**Ordering information

0	Series na	ame :PL75	
2	Connect	or type	
	Р	:Straight plug	
	LP	:Right-angle plug	
	R	:Straight receptacle	
	LR	:Right-angle receptacle	
	Applicabl	e cable (plug) or board mounting (receptacle) style	
3	1.5CV	:1.5CCA-EXBV(LF)	
	1.5CW	:1.5C-QEW.CW	
	PC:DIP mounting		

# **■**Plugs

# **●Straight**



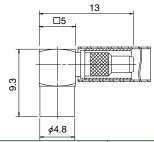


All dimensions: mm

Part No.	HRS No.	Applicable cable	RoHS
PL75-P-1.5CV	334-0078-0	1.5CCA-EXBV(LF)	Yes

# ●Right angle





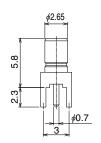
All dimensions: mm

Part No.	HRS No.	Applicable cable	RoHS
PL75-LP-1.5CV	334-0076-4	1.5CCA-EXBV(LF)	Yes
PL75-LP-1.5CW	334-0080-1	1.5C-QEW.CW	res

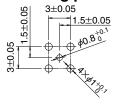
# **■**Receptacles

# **●Straight**





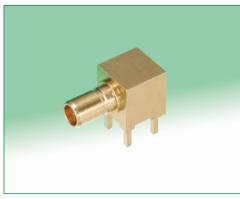
# ●PCB mounting pattern



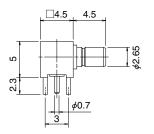
All dimensions: mm

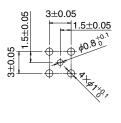
Part No.	HRS No.	RoHS
PL75-R-PC	334-0081-4	Yes

# ●Right angle



# ●PCB mounting pattern



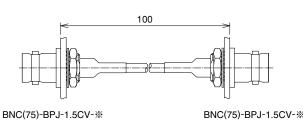


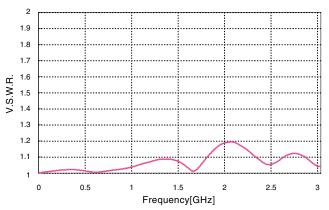
All dimensions: mm

Part No.	HRS No.	RoHS
PL75-LR-PC	334-0075-1	Yes

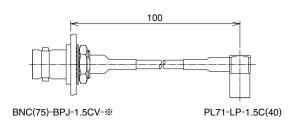
# **●** High Frequency Characteristics of 75Ω Hirose Products

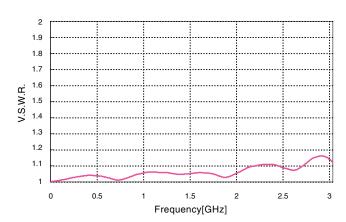
### ●BNC(75) Series



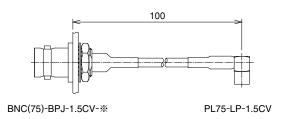


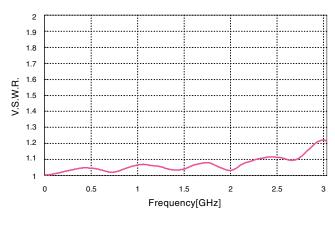
#### PL71 Series



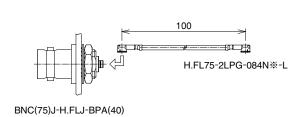


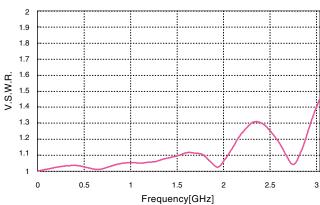
### PL75 Series





#### H.FL75 Series







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