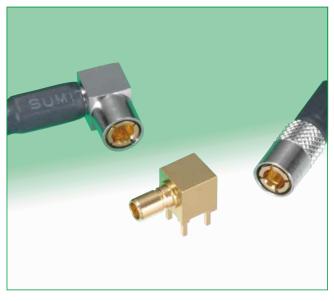
Ultra-Miniature Push-on Lock Coaxial Connectors for Digital Broadcasting Applications

PL75 Series 75Ω up to 3GHz



PL75 and PL71 Size Comparison Right-angle receptacles [PL71] 14.9 [PL75] 9.2 9 4.5 $\phi 0.7$ φ0.7 [PL71] ●Right-angle plugs 14.4 [PL75] □6.7 □5 4 ϕ 4.8 $\phi 6.5$ Fig.1

■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.

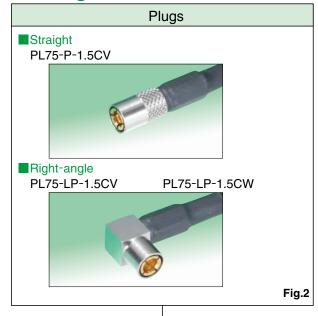
4. Applicable cable: 1.5C type

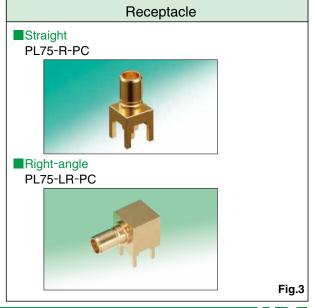
By using together with Hirose's BNC(75) Series connectors, 75Ω total system lines from the interface connections to the internal wiring system is available.

5.RoHS compliant

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

■ Mating Chart



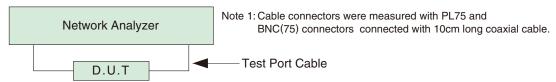


■Specifications

Ratings	Nominal characteristic impedance : 75Ω	Operating temperature range :-30°C to +85°C	
- ramige	Frequency range : DC to 3 GHz	Operating humidity : RH 95% max.	
Item	Specification	Conditions	
Insulation resistance	1,000 MΩ min.	250 V DC	
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 μ 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 MΩ 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 $+35^{\circ}\text{C} \rightarrow +85^{\circ}\text{C} \rightarrow +5^{\circ}\text{C}$	
O. Taman a ratura a vala		to +35℃	
8. Temperature cycle	Outer shell : 10 mΩ max.	Time: 30 min. → 5 min.max. → 30 min. → 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	

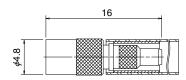
■Ordering information

0	Series n	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
8	1.5CV	:1.5CCA-EXBV(LF)
	1.5CW	:1.5C-QEW.CW
	PC:DIP r	mounting

■Plugs

●Straight



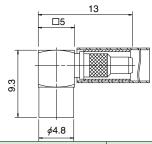


All dimensions: mm

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

●Right angle





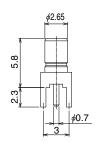
All dimensions: mm

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

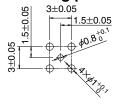
■Receptacles

●Straight





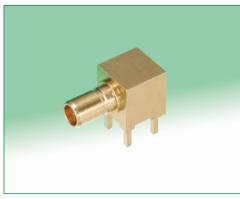
●PCB mounting pattern



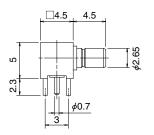
All dimensions: mm

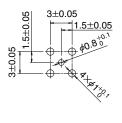
Part No.	HRS No.	RoHS
PL75-R-PC	334-0081-4	Yes

●Right angle



●PCB mounting pattern



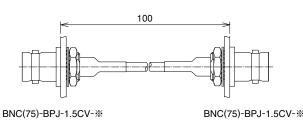


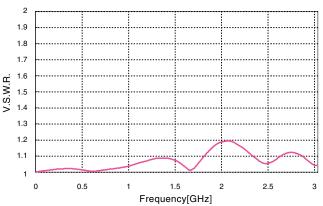
All dimensions: mm

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

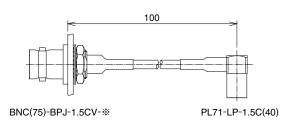
● High Frequency Characteristics of 75Ω Hirose Products

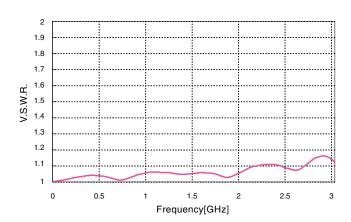
●BNC(75) Series



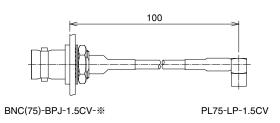


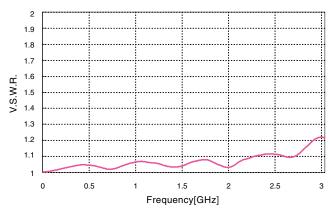
PL71 Series



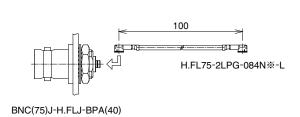


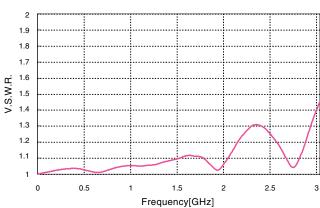
●PL75 Series





H.FL75 Series







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http://www.hirose-connectors.com