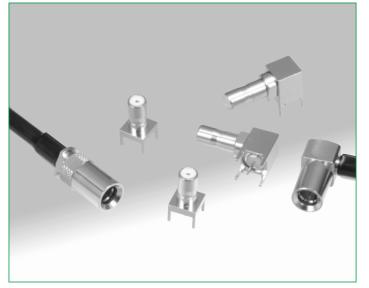
Push-on Lock Coaxial Connectors for Digital Broadcasting Applications

PL71 Series



75Ω Up to 3 GHz

Features

1.20% downsized compared with conventional 75 ohm BNC connectors.

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. Stable, stationary center contact structure

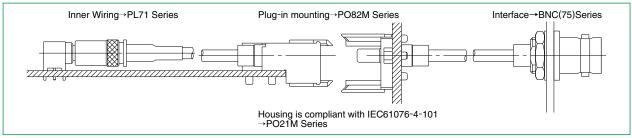
The stationary design protects the extremely thin center conductor of this 75 ohm coaxial cable from potential damage. Damage can be caused by rotational forces during mating and unmating.

4. Reliable at high frequencies

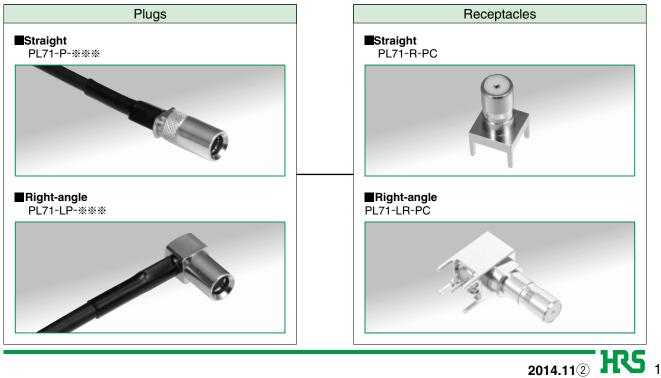
The high-frequency performance of the PL71 Series is very reliable, with V.S.W.R. characteristics of a maximum of 1.3 at DC, and up to 3 GHz, which is suitable for 3G-SDI broadcasting equipment.

Applications

The PL71 Series is well suited for use in the digital cable television broadcasting industry. This 75 ohm coaxial series can work together with BNC(75)Series and PO82M Series to configure a wide range of functions, including interface connections, plug-in mounting, and wiring within devices.



Mating Chart



Specifications

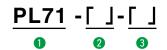
Ratings	Nominal characteristic impedance : 75Ω	Operating temperature range :-30°C to +85°C
	Frequency range : DC to 3 GHz	Operating humidity : RH 95% max.
Item	Specification	Conditions
1. Contact resistance	6 mΩ max.	100 mA max.
2. Insulation resistance	1,000 MΩ min.	500 V DC
3. Withstanding voltage	No flashover of insulation breakdown	500 V AC / 1 minute
4. V.S.W.R.	1.3max.	DC to 3 GHz
5. Center contact	0.5N min.	Measured with 0.49mm diameter pin gauge
6. Insertion and withdrawal forces	9.8 N min.	Measured with the applicable mating pair
7. Durability(mating/ unmating with corresponding plug)	Contact resistance 6 mΩ max.	500 mating cycles
8. Vibration	No electrical discontinuity of 1μ s or longer No damage, cracks, or parts dislocation	Frequency: 10 to 500 Hz, single amplitude of 0.75 mm, acceleration of 98m/s ² , 10 cycles in each of the 3 axial directions
9. Shock resistance	No electrical discontinuity of 1μ s or longer No damage, cracks, or parts dislocation	Acceleration of 490m/s ² , for a duration of 11 ms, sine half-wave waveform, 3cycles in each of the 3 axial directions
10. Moisture resistance	Insulation resistance: $100 \text{ M}\Omega$ min. (high humidity) Insulation resistance: $1,000 \text{ M}\Omega$ min. (dry) No damage, cracks, or parts dislocation	240 hours at $+25^{\circ}$ C to $+65^{\circ}$ C and humidity of 80% to 96%
		Temperature:-55°C → +5°C to +35°C → +85°C → +5°C to +35°C
11. Temperature cycle	No damage, crack, or part dislocation	Time: 30 min. \rightarrow 5 min.max. \rightarrow 30 min. \rightarrow 5 min.max.
		5 cycles
12. Salt spray	No corrosion	5% salt water solution, 48 hours

Note: Some products may have different specifications from those shown above. Please confirm requirements before ordering.

Materials

Part	Materials	Finish	Remarks
Shell	Brass	Nickel plated	
Male center contact	Brass	Gold plated	
Female center contact	Beryllium copper	Gold plated	
Insulator	PTFE		Flame retardant

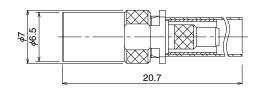
Ordering information



 Series name 	: PL71	
2 Connector type	1	
Р	: Straight plug	
LP	: Right-angle plug	
R	: Straight receptacle	
LR	: Right-angle receptacle	
3 Applicable cable(plug) or board		
1.5C	: 1.5C-QEV.CW	
1.5CW	: 1.5C-QEW.CW	
PC	: DIP mounting	
L		

Plugs Straight



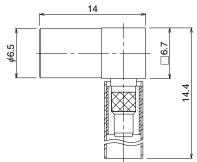


All dimensions:mm

Part No.	HRS No.	Applicable cable	RoHS	
PL71-P-1.5CW(40)	334-0001-5 40	1.5C-QEW.CW	Vaa	
PL71-P-1.5CV-1(40)	334-0069-9 40	1.5C-QEV.CW	Yes	

•Right angle





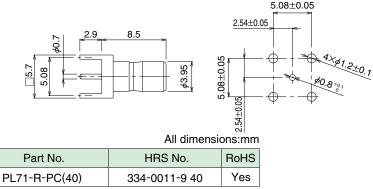
All dimensions:mm

Part No.	HRS No.	Applicable cable	RoHS
PL71-LP-1.5CW(40)	334-0006-9 40	1.5C-QEW.CW	Vaa
PL71-LP-1.5C(40)	334-0007-1 40	1.5C-QEV.CW	Yes

Receptacles Straight

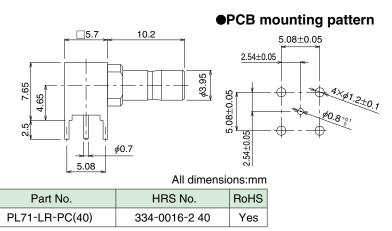


●PCB mounting pattern 5.08±0.05



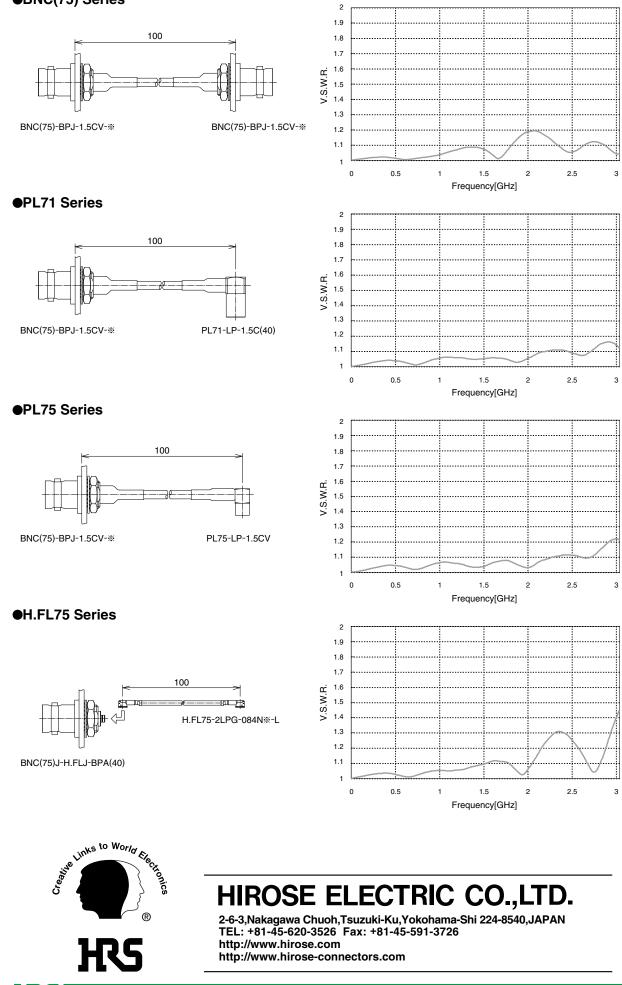
Right angle





HS 3

High Frequency Characteristics of 75Ω Hirose product series BNC(75) Series



The characteristics and the specifications contained herein are for reference purpose. Please refer to the latest customer drawings prior to use. The contents of this catalog are current as of date of 11/2014. Contents are subject to change without notice for the purpose of improvements.