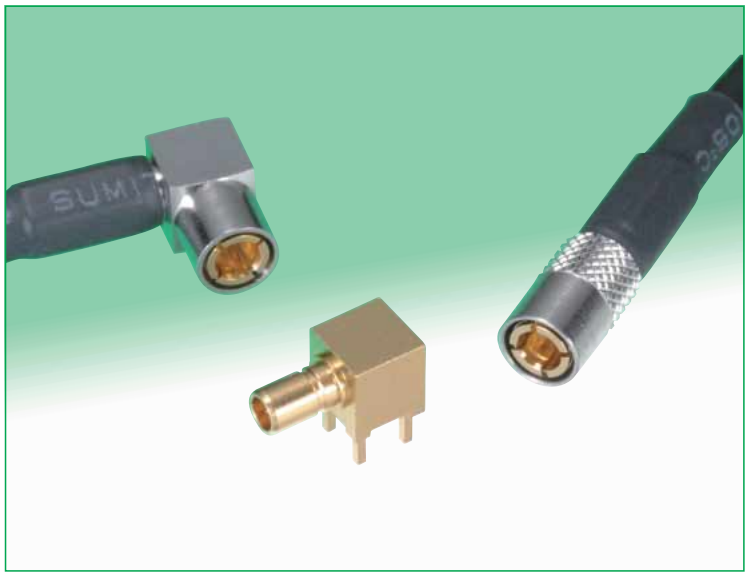
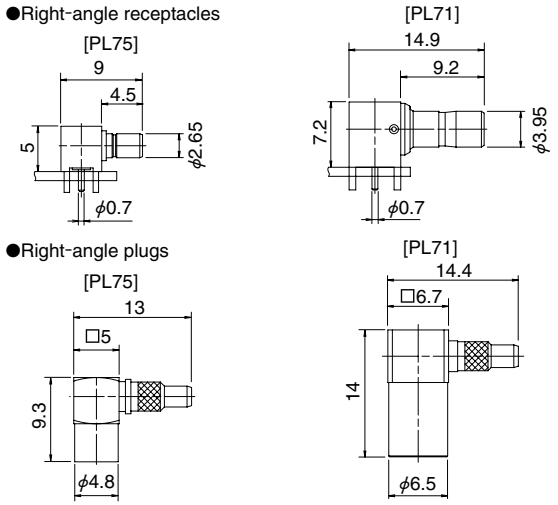
NEW

75Ω Ultra- Miniature Push-on Lock Coaxial Connectors

PL75 Series



PL75 and PL71 Size Comparison



Features

1.Further reduction in size

Reflecting the need for smaller devices, the size is reduced by approximately 30% when compared with the PL71 Series 75 Ohm connectors.

2.Secure lock

Unique design of the lock/release, protected by outer shell, assures reliable and stable electrical and mechanical connection.

3.High degree of impedance matching

V.S.W.R of 1.3 max for frequencies of DC to 1.5 GHz.

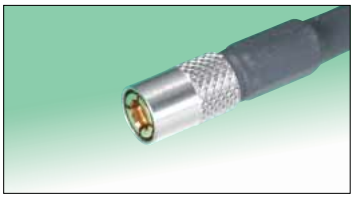
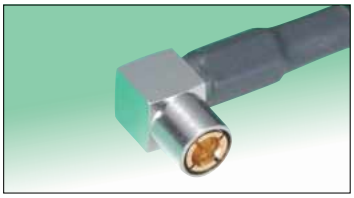
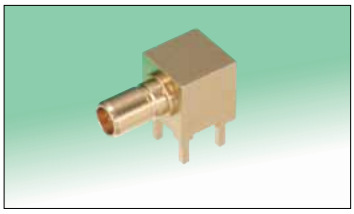
4. RoHS compliant

All components and materials comply with the requirements of EU Directive 2002/95/EC.

Applications

Satellite digital networks, CATV, broadcasting equipment, visual equipment and other applications requiring highly reliable coaxial cable connections.

Mating Chart

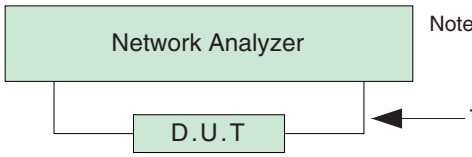
Plugs	Receptacle
■Straight PL75-P-1.5CV  ■Right-angle PL75-LP-1.5CV PL75-LP-1.5CW 	■Right-angle PL75-LR-PC 

■Specifications

Ratings		
	Nominal characteristic impedance: 75Ω	Operating temperature range: -30°C to +85°C
	Frequency range : DC to 1.5 GHz	Operating humidity : RH 95% max.

Item	Specification	Conditions
1. Insulation resistance	1,000 MΩ min.	250 V DC
2. Withstanding voltage	No flashover or insulation breakdown	250 V AC / 1 minute
3. Contact resistance	Center contact : 15 mΩ max. Outer shell: 6 mΩ max.	100 mA 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 1.5GHz
6. Vibration	No electrical discontinuity of 1 μs or longer No damage, cracks, or parts dislocation	Frequency: 10 to 500 Hz, single amplitude of 0.75 mm, acceleration of 98m/s², 2 hours in each of the 3 axis
7.Moisture resistance	Insulation resistance: 10 MΩ min. (high humidity) Insulation resistance: 1,000 MΩ min. (dry) No damage, cracks, or parts dislocation	96 hours at +40℃ and humidity of 90% to 95%
8. Temperature cycle	Contact resistance Center contact : 19 mΩ max. Outer shell : 10 mΩ max. No damage, cracks, or parts dislocation	Temperature: -30℃ → +5℃ to +35℃ → +85℃ → +5℃ to +35℃ Time: 30 min. → 5 min.max. → 30 min.→ 5 min.max. 5 cycles
9. Durability	Contact resistance: Center contact : 19 mΩ max. Outer shell : 10 mΩ max. No damage, cracks, or parts dislocation	500 cycles
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.



Note 1: Cable connectors were measured with PL75 and BNC(75) connectors connected with 10cm long coaxial cable.

■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

●Receptacle

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

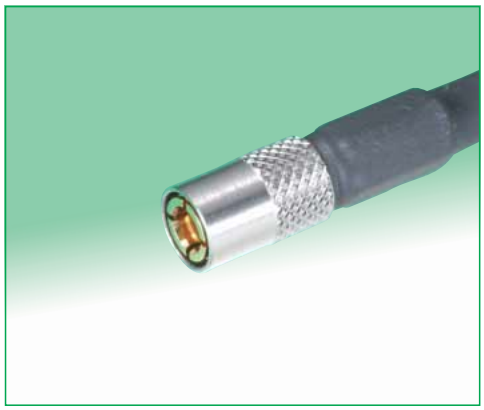
■Ordering information

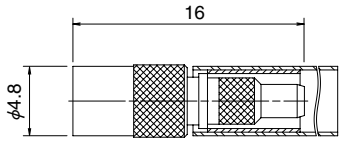
PL75 - ☐ - ☐
❶ ❷ ❸

❶ Series name	:PL75
❷ Connector type	
P	:Straight plug
LP	:Right-angle plug
LR	:Right-angle plug receptacle
❸ Applicable cable (plug) or board mounting (receptacle) style	
1.5CV	:1.5CCA-EXBV(LF)
1.5CW	:1.5C-QEW.CW
PC	:DIP mounting

■Plugs

●Straight



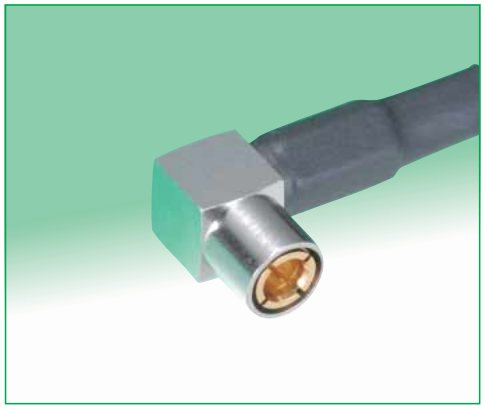


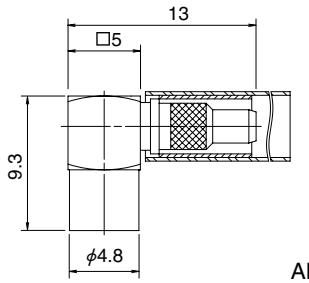
All dimensions: mm

Part Number	CL No.	Applicable cable	RoHS
PL75-P-1.5CV	334-0078-0	1.5CCA-EXBV(LF)	YES

·Must be terminated only with the specified cable.

●Right angle





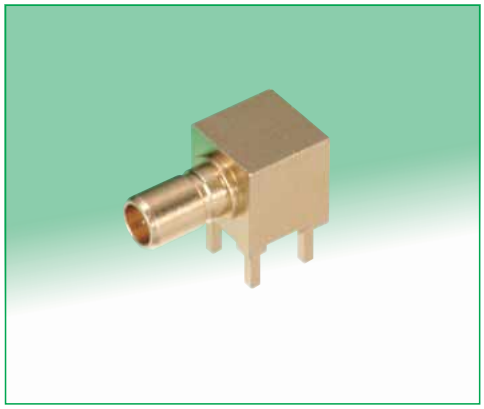
All dimensions: mm

Part Number	CL 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	

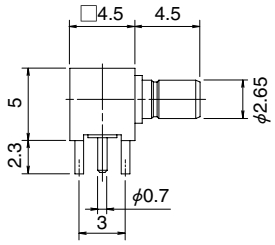
·Must be terminated only with the specified cable.

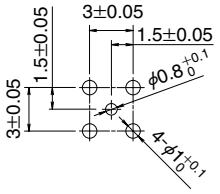
■Receptacle

●Right angle



●PCB mounting pattern





All dimensions: mm

Part Number	CL No.	RoHS
PL75-LR-PC	334-0075-1	YES