

### PL71 series (75 $\Omega$ Series Sub-miniature push-on lock connector)

The PL71 series are matched impedance sub-miniature 75 ohm coaxial connectors developed for high-frequency digital transmission using small overall diameter coaxial cable. These connectors are well suited when high-density packaging is a must.

#### Features

- Sub-miniature design has reduced overall size by 20% as compared with our standard 75 ohm coaxial connectors.
- The unique coupling method was designed to insure electrical integrity and with an outer sleeve to increase stability to improve reliability.
- To protect the small O.D. coaxial cable HIROSE has incorporated a fixed structure for the center contact. This will eliminate mechanical stress on the cable during insertion and removal or rotation of the connector.

VSWR for this sub-miniature coaxial connector is less than 1.2.

#### Performance

Characteristics impedance	75 $\Omega$
Insulation resistance	1000M $\Omega$ max. at DC 500V
Contact resistance	At DC 1A, Center and outer parts: 6m $\Omega$ max.
Withstand voltage	For 1 minute at AC 500V r.m.s.
Voltage standing wave ratio	1.2 max. from 10MHz to 1000MHz

#### Applications

Radio equipment, Electronic measuring instruments, CATV or in any design where space is critical.



### H.FL Series (Ultra-Small Surface Mounting Connectors)

#### Features

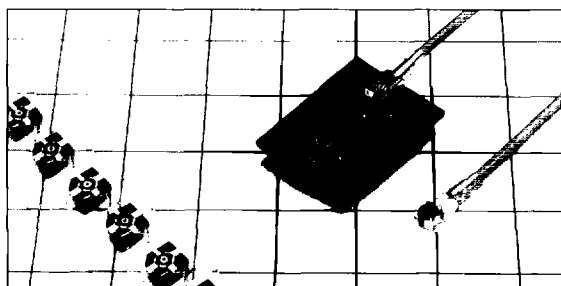
- Designed for surface mounting.
- Height at time of mounting is 3mm or less. In comparison to the product available up until now (S. FL2), this height is 1.7mm shorter (i.e., about 35% shorter).
- High frequency response to 3 GHz and high conformity with V.S.W.R. of 1.3 or less.
- Very thin coaxial cables (with an external diameter of 1.48mm) are standard.
- The simple lock permits a check of a secure connection with a locking sensation.
- Embossed packaging is specified for suitability to automatic mounting.

#### Performance

Characteristics impedance	50 $\Omega$
Insulation resistance	500M $\Omega$ max. at DC 250V
Contact resistance	20m $\Omega$ max. (center) and 10m $\Omega$ max. (outside) at DC 10mA
Withstand voltage	For 1 minute at AC 300V r.m.s.
Coupling force (Withstanding force)	3 to 20 N (300 gf to 2 kgf)
Voltage standing wave ratio	1.3 max. from 10MHz to 3000MHz

#### Applications

Digital portable telephones, PHP, wireless communications equipment, electronic measuring instruments, GPS, LCD TVs, etc.



### PO6 Series (DC ~ 2000 MHz) (Low-profile ultra small co-axial connectors)

#### Features

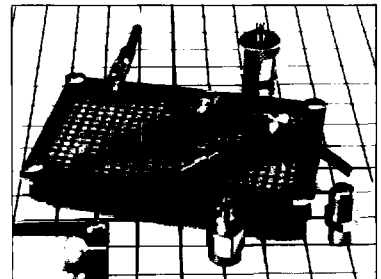
- PO6 series are low-profile. Two mounted heights are available 10.5mm and 6.0mm.
- Ultra small in size. PO6 series have been reduced to about 80% in comparison with our UM series.
- The standard cables are RG-196A/U.
- The series has a high degree of compatibility. The high-frequency characteristics are excellent. The V.S.W.R. is 1.2 max. from 0 to 2000MHz.

#### Performance

Impedance	50 $\Omega$
Insulation resistance	1000M $\Omega$ min. at DC 250V
Contact resistance	Center conductor 6.5m $\Omega$ max., outer conductor 4m $\Omega$ max. at DC 1A
Withstand voltage	AC 250V r.m.s./one minute
Coupling force (Withstanding force)	5N (500gf) min.

#### Applications

Microwave communication equipment, Radios, Radio communication equipment, Mobile radio equipment, IC testers, Electronic measuring instruments, Broadcasting equipment, etc.



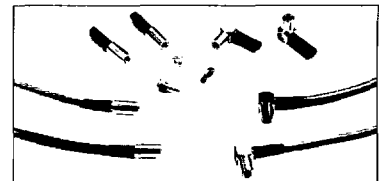
### UM series

#### Features

- UM series, designed on basis of approval in NDS XC 6115 (DSP C 6205), JIS C 5415, are ultra small and light weight connectors that are suitable for use with very thin coaxial cable.
- Two types of lock are available, screw lock and push-on.
- Voltage rating 150V Impedance 50  $\Omega$
- Crimping type of plug have been developed and the VA type of receptacle have been added as new UM series.

#### Applications

Microwave equipment, Mobile radio equipment, Broadcasting equipment, Military radio equipment, Super electronic calculator etc.



### POD1 Series (Ultra-Small Push-on Complete-Locking Coaxial Connectors)

#### Features

- These connectors use Hirose Electric's original push-on complete-locking system which offers excellent operational qualities. There is no need to worry about connectors coming off even when unnecessary force is applied to the cable.
- Compared to the BNC Series and TNC Series of complete-locking types which have been the most popular up until now, a 50% reduction of the diameter has been achieved in the POD1 Series.  
(External diameter of the connector coupling portion is 7.6mm)

#### Performance

Characteristics impedance	50 $\Omega$
Insulation resistance	1000M $\Omega$ max. at DC 500V
Contact resistance	At DC 1A, Center and outer parts: 5m $\Omega$ max.
Withstand voltage	For 1 minute at AC 500V r.m.s.
Voltage standing wave ratio	1.3 max. from 10MHz to 3000MHz

#### Applications

Wide variety of mobile communications equipment, GPS, and measuring instruments, etc.

