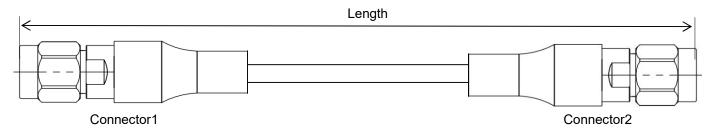


# Ultra-Low Loss Phase and Amplitude Stable Cable Assembly, Using PL360

# DC-40 GHz, 2.92mm Male to 2.92mm Male

PL360-292M292M-L(L:Length)

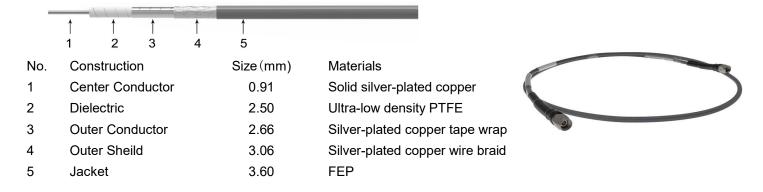


- Length can be in meter or in inch etc, e.g, PL360-292M292M-1M. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.
- · Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

## Configuration

Connector 1	2.92mm male	Connector 2	2.92mm male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	PL360		

#### **Cable Construction**



### **Electrical**

Frequency	DC-40 GHz			
Impedance	50 Ω			
VSWR Max	1.3			
IL Max(1 meter assembly)	3.2dB			
*Mechanical Phase Stability	<±6°			
Amplitude Stability vs Shaking	<±0.15dB			

<sup>\*</sup> Wrapped 360° around a 36mm radius mandrel.

### **Mechanical & Environmental**

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	82%
Temperature(Operation)	-50∼85 °C
Temperature(Storage)	-60∼85 °C

# Bulk Cable Attenuation(Typical@25°C) & Power(VSWR=1.0; 40°C; Sea level)

Frequency MHz	300	1200	2500	4000	6000	8000	10000	12000	14000	18000	32000	40000
dB/100 Meter	20.4	41.1	59.8	76.1	93.8	108.9	122.3	134.6	146.0	166.7	226.6	255.7
Avg.Power kW	0.940	0.466	0.321	0.252	0.204	0.176	0.157	0.142	0.131	0.115	0.094	0.075
Attenuation at any frequency=[1.16847×SQRT(FMHz)]+[0.000550×FMHz]												

#### Notes:

- 1) The above attenuation refers to typical loss of cable only, max loss is 1.1 times of typical loss. Insertion loss per connector is estimated as 0.03dB x SQRT Freq(GHz).
- 2) Power handling values are calculated based on cable properties. Power handling will vary based on connector type and actual VSWR of the cable assembly.

## Typical Test Data (PL360-292M292M-1M)

