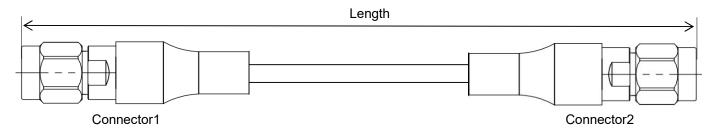


# Precision Phase Stable Test Cable Assembly, Using PL380P

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

PL380P-292M292M-L(L:Length)

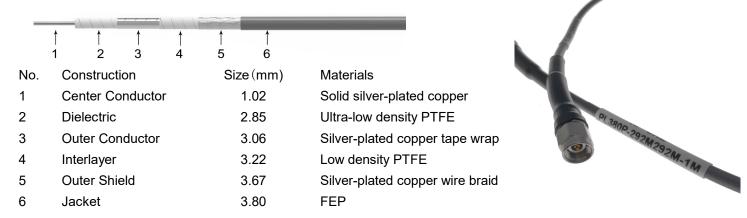


- Length can be in meter or in inch etc, e.g, PL380P-292M292M-1M. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.
- · Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

## 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	PL380P				

## **Cable and Armor Construction**



### **Electrical**

Frequency	DC-40 GHz
Impedance	50 Ω
VSWR Max	1.3
IL Max(1 meter assembly)	2.8dB
*Mechanical Phase Stability	<±5°
Amplitude Stability vs Shaking	<±0.1dB

<sup>\*</sup> Wrapped 360° around a 38mm radius mandrel.

### **Mechanical & Environmental**

Min.Bending Radius Static	19mm			
Min. Bending Radius Repeated	38mm			
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	1000	2000	4000	6000	8000	10000	12000	14000	18000	26500	40000
dB/100 Meter	17.3	31.9	45.5	64.9	80.1	93.1	104.7	115.3	125.1	143.0	176.1	220.5
Avg.Power kW	0.940	0.511	0.359	0.251	0.203	0.175	0.156	0.141	0.130	0.114	0.093	0.074
Attenuation at any frequency=[0.991549×SQRT(FMHz)]+[0.0005555×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 (PL380P-292M292M-1M)

