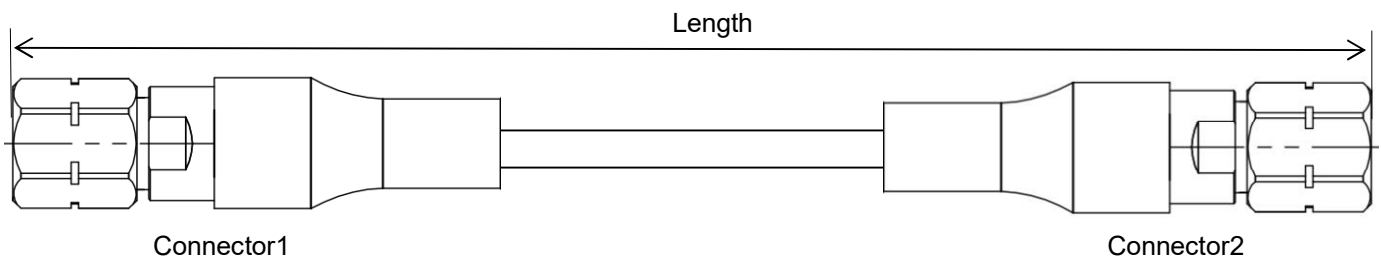


Armored Bench Test Cable Assembly, Using PL360P

DC-50 GHz, 2.4mm Male to 2.4mm Male

PL360P-24M24M-L-A(L:Length)

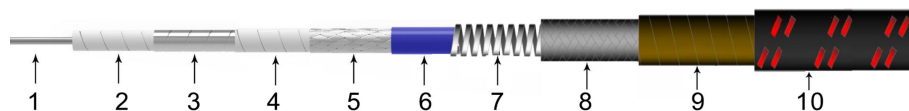


- Length can be in meter or in inch etc, e.g, PL360P-24M24M-1M-A. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	2.4mm male	Connector 2	2.4mm male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	PL360P	Armor	AL640

Cable and Armor Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.72	Solid silver-plated copper
2	Dielectric	2.15	Low density PTFE
3	Outer Conductor	2.30	Silver-plated copper tape wrap
4	Interlayer	2.60	Low density PTFE
5	Outer Shield	3.05	Silver-plated copper wire braid
6	Inner Jacket	3.60	FEP
7	Crush Resistance Layer	4.80	Stainless steel spiral
8	Strengthening Layer	5.35	Silver plated copper braid
9	Waterproof Layer	5.40	PTFE Binder
10	Armor Jacket	6.40	Braiding PTFE(red+black or other colors available)



Electrical

Frequency	DC-50 GHz
Impedance	50 Ω
VSWR Max	1.35
IL Max(1 meter assembly)	4dB
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.1\text{dB}$

Mechanical & Environmental

Min.Bending Radius Static	32mm
Min. Bending Radius Repeated	64mm
Velocity of Propagation	76%
Flex Life Min	20000 cycles
Temperature(Operation)	-50~85 $^\circ\text{C}$
Temperature(Storage)	-60~85 $^\circ\text{C}$

* Wrap the cable 360 degree around a mandrel whose diameter is ten times of the cable jacket size.

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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	18000	26500	40000	50000
dB/100 Meter	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	191.8	234.8	291.7	328.5
Avg.Power kW	0.750	0.409	0.288	0.202	0.165	0.142	0.127	0.115	0.093	0.076	0.061	0.055

$$\text{Attenuation at any frequency} = [1.370735 \times \text{SQRT}(\text{FMHz})] + [0.000440 \times \text{FMHz}]$$

- 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 (PL360P-24M24M-1M-A)

