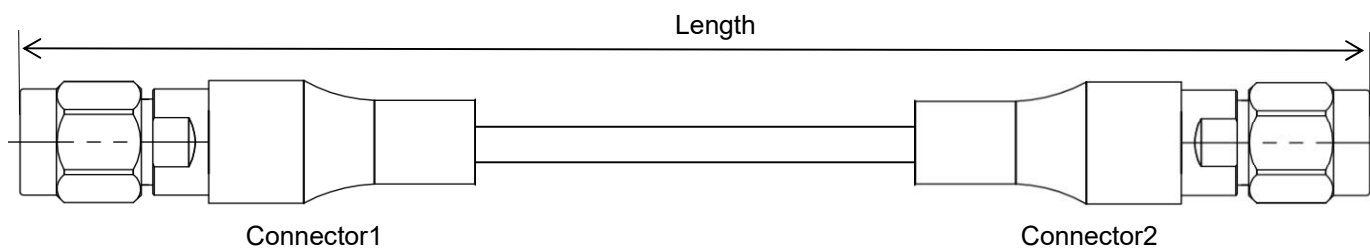


Super-flexible Phase Stable Test Cable Assembly, Using UF370P

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

UF370P-292M292M-L(L:Length)

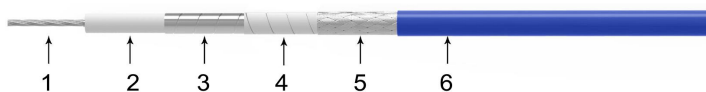


- Length can be in meter or in inch etc, e.g, UF370P-292M292M-1M. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

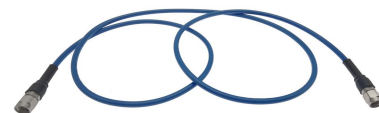
Configuration

Connector 1	2.92mm 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	UF370P		

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.72	Stranded silver plated copper
2	Dielectric	2.10	Low density PTFE
3	Outer Conductor	2.30	Silver plated copper strip wrapping
4	Interlayer	2.50	PTFE
5	Outer Shield	2.85	Silver plated copper wire braiding
6	Inner Jacket	3.70	PUR



Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
VSWR Max	1.3
IL Max(1 meter assembly)	4.3dB
*Mechanical Phase Stability	$< \pm 8^\circ @ 40\text{GHz}$
Amplitude Stability vs Shaking	$< \pm 0.1\text{dB} @ 40\text{GHz}$

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	37mm
Velocity of Propagation	76%
Temperature(Operation)	-50~85 $^\circ\text{C}$
Temperature(Storage)	-60~85 $^\circ\text{C}$

* Wrapped 360° around a 36mm radius mandrel.

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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	14000	18000	26500	40000	50000
dB/100 Meter	29.0	53.3	75.8	108.0	133.0	154.4	173.3	206.5	235.6	289.1	360.3	406.4
Avg.Power kW	0.600	0.327	0.230	0.161	0.131	0.113	0.101	0.084	0.074	0.060	0.048	0.043

$$\text{Attenuation at any frequency} = [1.664388 \times \text{SQRT}(\text{FMHz})] + [0.0006856 \times \text{FMHz}]$$

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 (UF370P-292M292M-1M)

