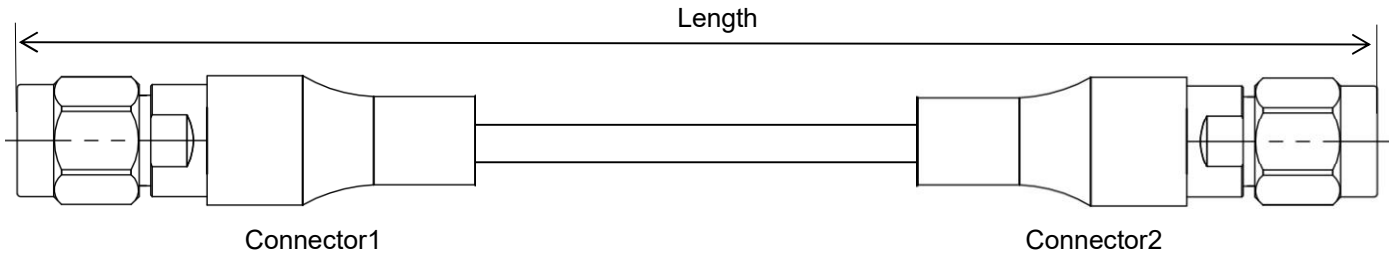


Ultra-Flexible Phase Stable Low Loss Cable Assembly, Using UF360

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

UF360-292M292M-L(L:Length)

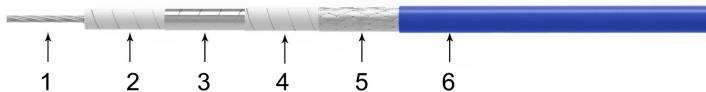


- Length can be in meter or in inch etc, e.g, UF360-292M292M-1M. Standard length tolerance: $\pm 1.5\%$. Custom lengths and other connector types available.
- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

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	UF360		

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center Conductor	0.91	Stranded silver plated copper
2	Dielectric	2.50	Low density PTFE
3	Outer Conductor	2.66	Silver plated copper tape wrap
4	Interlayer	2.90	PTFE
5	Outer Shield	3.30	Silver plated copper wire braid
6	Inner Jacket	3.80	PTFE wrapping



Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
VSWR Max	1.3
IL Max(1 meter assembly)	3.8dB
*Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	81%
Temperature(Operation)	-50~85 °C
Temperature(Storage)	-60~85 °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	1200	3000	4000	6000	8000	10000	12000	14000	18000	26500	40000
dB/100 Meter	22.3	45.5	73.4	85.4	106.1	124.0	140.0	154.8	168.6	194.0	241.6	306.9
Avg.Power kW	0.740	0.363	0.225	0.193	0.156	0.133	0.118	0.107	0.098	0.085	0.068	0.054

$$\text{Attenuation at any frequency} = [1.265700 \times \text{SQRT}(\text{FMHz})] + [0.001343 \times \text{FMHz}]$$

- 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 (UF360-292M292M-1M)

