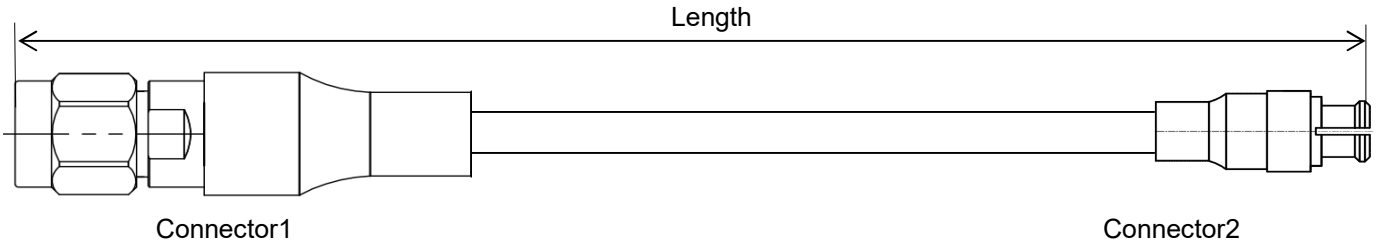
141" High Density Flexible Cable Assembly, Using Phase Stable PL360

DC-40 GHz, 2.92mm Male to SSMP Female PL360-292MSSMPF-L(L:Length)

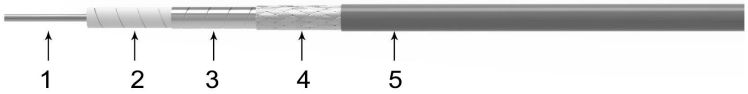


· Length can be in meter or in inch etc, e.g, PL360-292M292M-1M.Standard length tolerance: ±1.5% or ±5mm whichever is greater. Custom lengths and other connector types available.
· Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	2.92mm male Clamp type	**Connector 2**	SSMP(Mini-SMP) female
Body	Passivated stainless steel	Body	Gold plated BeCu
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	PL360		

Cable Construction



No.	Construction	Size（mm）	Materials
1	Center Conductor	0.91	Solid silver-plated copper
2	Dielectric	2.50	Ultra-low density PTFE
3	Outer Conductor	2.66	Silver-plated copper tape wrap
4	Outer Sheild	3.06	Silver-plated copper wire braid
5	Jacket	3.60	FEP

Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
*VSWR Max	1.4-1.45
*IL Max(0.1 meter assembly)	0.85dB
**Mechanical Phase Stability	<±6º
Amplitude Stability vs Shaking	<±0.15dB

Mechanical & Environmental

Min.Bending Radius Static	18mm
Min. Bending Radius Repeated	36mm
Velocity of Propagation	82%
Temperature(Operation)	-50～105 ºC
Temperature(Storage)	-60～105 ºC

* The VSWR and IL include the loss and reflection contributions from the Mini-SMP adapters used during testing.

** Wrapped 360˚ around a 36mm radius mandrel.

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