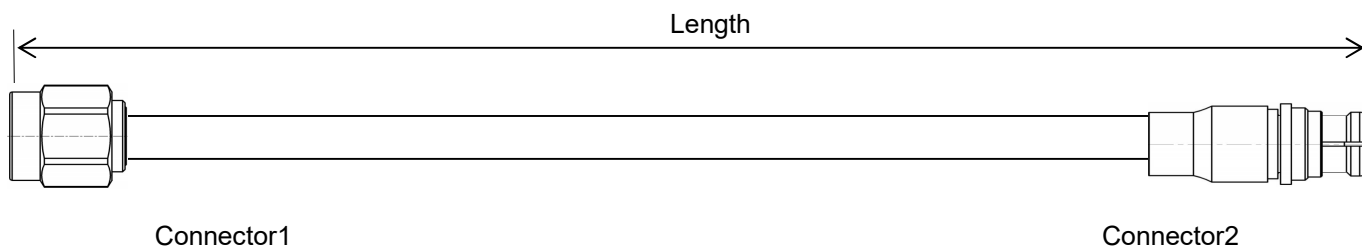


086" High Density Phase Stable Flexible Cable Assembly, Using LP220

DC-40 GHz, Direct Solder 2.92mm Male to SMP Female

LP220-D292MSMPF-L(L:Length)



- Length can be in meter or in inch etc, e.g, LP220-SMPFSMPFRA-L. Standard length tolerance: $\pm 1.5\%$ or $\pm 5\text{mm}$ 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	Direct solder 2.92mm male	Connector 2	SMP female
Body	Gold plated brass	Body	Gold plated BeCu
Nut	Passivated stainless steel	Center Contact	Gold plated BeCu
Center Contact	Gold plated BeCu	Cable Type	LP220

Cable Construction

No.	Construction	Size (mm)	Materials
1	Center Conductor	0.51	Solid silver-plated copper
2	Dielectric	1.43	Ultra-low density PTFE
3	Outer Conductor	1.55	Silver-plated copper tape wrap
4	Outer Shield	1.85	Silver-plated copper wire braid
5	Jacket	2.20	FEP



Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
VSWR Max	1.45
*IL Max(0.1 meter assembly)	1.06dB
**Mechanical Phase Stability	$< \pm 5^\circ$
Amplitude Stability vs Shaking	$< \pm 0.15\text{dB}$

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

** Wrapped 360° around a 22mm radius mandrel.

Mechanical & Environmental

Min.Bending Radius Static	11mm
Min. Bending Radius Repeated	22mm
Velocity of Propagation	81%
Temperature(Operation)	$-50 \sim 105^\circ\text{C}$
Temperature(Storage)	$-60 \sim 105^\circ\text{C}$

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

Frequency MHz	300	1000	2000	3000	6000	12000	18000	26500	30000	40000	50000	67000
dB/100 Meter	34.3	63.3	90.3	111.3	159.8	230.7	286.9	354.3	379.4	445.2	504.8	596.4
Avg.Power kW	0.510	0.277	0.194	0.157	0.110	0.076	0.061	0.049	0.046	0.039	0.035	0.029
Attenuation at any frequency= $[1.96000 \times \text{SQRT}(\text{FMHz})] + [0.001330 \times \text{FMHz}]$												