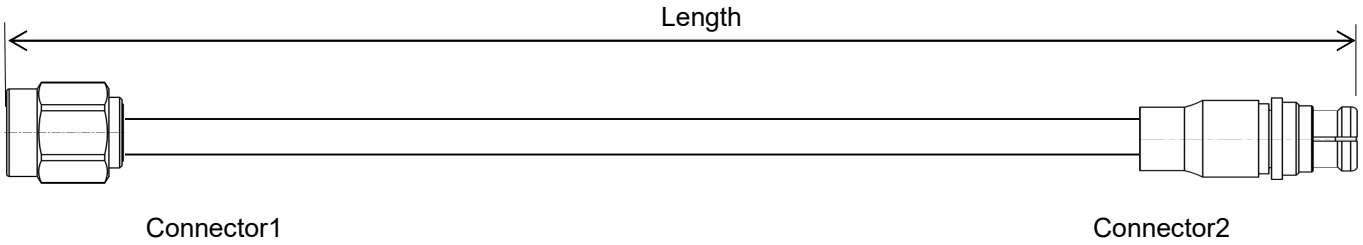
086" High Density Flexible Cable Assembly, Using Tight Bend MB260L

DC-40 GHz, 2.92mm Male to SMP Female MB260L-292MSMPF-L(L:Length)

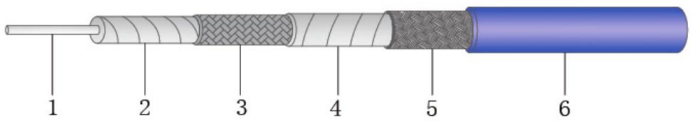


· Length can be in meter or in inch etc, e.g, MB260L-292MSMPF-L.Standard length tolerance: ±1.5% or ±5mm whichever is greater. Custom lengths and other connector types available.
· Length is measured from one connector end to the other connector end as shown above.

Configuration

Connector 1	2.92mm male	**Connector 2**	SMP female
Body	Passivated stainless steel	Body	Gold plated BeCu
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu
Cable Type	MB260L		

Cable Construction



No.	Construction	Size (mm)	Materials
1	Center conductor	0.56	Silver plated copper
2	Dielectric	1.70	Low density PTFE
3	Outer conductor	1.85	Silver plated copper wire braiding
4	Middle layer	1.98	Aluminum foil
5	Outer shield	2.24	Stainless steel wire
6	Jacket	2.64	FEP

Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
*VSWR Max	1.45
*IL Max(0.1 meter assembly)	1.04dB
**Mechanical Phase Stability	<±6º
Amplitude Stability vs Shaking	<±0.15dB

Mechanical & Environmental

Min.Bending Radius Static 360°	10.5mm
Min. Bending Radius Repeated	26mm
Velocity of Propagation	75%
Temperature(Operation)	-50～125 ºC
Temperature(Storage)	-60～125 ºC

* The VSWR and IL include the loss and reflection contributions from the SMP adapters used during testing.
** Wrapped 360˚ around a 22mm radius mandrel.

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

Frequency MHz	300	1000	2000	4000	6000	9200	10000	12400	18000	26500	40000	50000
dB/100 Meter	32.6	60.1	85.8	122.8	151.9	190.4	199.0	223.2	272.9	337.2	424.0	480.9
Avg.Power kW	0.500	0.271	0.190	0.133	0.107	0.086	0.082	0.073	0.060	0.048	0.038	0.034
Attenuation at any frequency＝[1.860000×SQRT(FMHz)]+[0.001300×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.