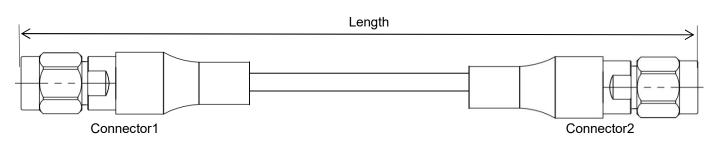


Low Loss Flexible Cable Replacing Semi-flexible Cable Assembly, Using SP280

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

SP280-292M292M-L(L:Length)



• Length can be in meter or in inch etc, e.g, SP280-292M292M-1M. Standard length tolerance: ±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	SP280		

Cable Construction

		i	11	(1997)		
	↑ 1	† 2	↑ 3	↑ 4	↑ 5	
No.	Const	- truction	-	Size (m	-	Materials
1	Cente	er Cond	uctor	0.51		Silver plated copper
2	Dieleo	ctric		1.63		Solid PTFE
3	Outer	Condu	ctor	1.79		Silver plated copper
4	Outer	Shield		2.16		Silver plated copper
5	Jacke	et		2.80		FEP

DC-40 GHz

50 Ω 1.3 6.7dB 70%

Electrical

Mechanical & Environmental

Min.Bending Radius Static	14mm
Min. Bending Radius Repeated	28mm
Temperature(Operation)	-50∼85 °C
Temperature(Storage)	-60∼85 °C

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

	Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	18000	26500	40000
	dB/100 Meter	37.0	69.3	100.3	146.5	183.7	216.4	246.1	273.7	299.7	348.2	440.8	570.9
	Avg.Power kW	0.187	0.100	0.069	0.047	0.038	0.032	0.028	0.025	0.023	0.020	0.016	0.012
Attenuation at any frequency=[2.066929×SQRT(FMHz)]+[0.003937×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 (SP280-292M292M-1M)

