

# DATA SHEET

## Cable connector



### Part Number

5113.SMP.JSC.01.111

### Description

SMP, Jack, Straight, Cable

### Interface Standard

MIL-STD-348A

### Suitable Cable

UT47, Belden1674A, Sucoform47\_PE



### Electrical Data

Impedance	50	Ω		
Max. operating frequency	40	GHz	connector limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 6GHz
VSWR	≤1.05	≤1.05	≤1.07	≤1.09
Insertion loss	0.05 $\sqrt{f(\text{GHz})}$	dB		
Insulation resistance	≥5000	MΩ		
Center contact resistance	≤6	mΩ		
Outer contact resistance	≤2	mΩ		
Dielectric withstanding voltage	≥500	Vrms @ 50Hz	connector limited	
Working voltage	≤335	Vrms @ 50Hz	connector limited	

### Mechanical Data

Mating cycles	≥500	
Center contact axial force	≥7	N
Center contact	solder	
Outer contact	solder	
Cable retention force		
UT47	≥41.8	N
Belden1674A	≥26.1	N
Sucoform47_PE	≥26.1	N

### Environmental Data

Operating temperature	restricted by cable and/or silicone used
2002/95/EC (ROHS)	compliant
Sealing	N/A
Thermal shock	MIL-STD-202 Method107, condition B
Moisture resistance	MIL-STD-202 Method106
Corrosion resistance	MIL-STD-202 Method101, condition B
Vibration	MIL-STD-202 Method204, condition B
Shock	MIL-STD-202 Method213, condition A

### Material Data

<u>Piece Parts</u>	<u>Material</u>	<u>Surface Plating</u>
center contact	Brass	Au
outer contact	Beryllium copper	Au
body	Brass	Au
insulator	PTFE	