

DATA SHEET

Cable connector



Part Number

5059.N.JSC.07.133

Description

N, Jack, Straight, Cable Mount

Interface Standard

IEC 60169-16

Suitable Cable

RG316/D



Electrical Data

Impedance	50	Ω		
Max. operating frequency	2.5	GHz	cable limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 2.5GHz	3 to 6GHz
VSWR	≤1.04	≤1.05	≤1.06	
Insertion loss	0.05 $\sqrt{f(\text{GHz})}$	dB		
Insulation resistance	≥5000	MΩ		
Center contact resistance	≤1	mΩ		
Outer contact resistance	≤0.25	mΩ		
Dielectric withstanding voltage	≥1000	Vrms @ 50Hz	cable limited	
Working voltage	≤400	Vrms @ 50Hz	cable limited	

Mechanical Data

Mating cycles	≥500	
Center contact axial force	≥28	N
Center contact axial torque	≥0.03	Nm
contact gauge ret. Force	≥0.56	N
Center contact	solder	
Outer contact	crimp	
Cable retention force		
-RG316/D	≥108.8	N

Environmental Data

Operating temperature	restricted by cable and/or silicone used
2002/95/EC (ROHS)	compliant
Sealing	IP68 (IEC60529)
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 D
Shock	MIL-STD-202 Method213, condition I

Material Data

Piece Parts	Material	Surface Plating
center contact	Phosphor bronze	Au
body	Brass	CuSnZn
insulator	PTFE	
nut	Brass	CuSnZn
spring washer	Phosphor bronze	CuSnZn
o-ring	silicone rubber	

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