

DATA SHEET

Cable connector



Part Number

5038.N.PSC.06.133

Description

N, Plug, Straight, Cable Mount

Interface Standard

IEC 60169-16

Suitable Cable

RG316/U, RG174/U, RG188A/U



Electrical Data

Impedance	50	Ω	
Max. operating frequency	3	GHz	cable limited
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz
VSWR	≤ 1.04	≤ 1.05	≤ 1.06
Insertion loss	$0.03 \sqrt{f(\text{GHz})}$	dB	
Insulation resistance	≥ 5000	M Ω	
Center contact resistance	≤ 1	m Ω	
Outer contact resistance	≤ 0.25	m Ω	
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/U, RG188A/U	≥ 54.4	N
-RG174/U	≥ 43.5	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 D
Shock	MIL-STD-202 Method213, condition I

Material Data

Piece Parts	Material	Surface Plating
center contact	Phosphor bronze	Au
outer contact	Brass	CuSnZn
insulator	PTFE	
Ferrule	Brass	CuSnZn
O-ring	silicone rubber	

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