

TECHNICAL DATA SHEET

50 ohm Connectors for RF Cables



Connector 5/8" for EC4.5-50 (5168)

FEATURES

- Wide frequency range (up to 6.0 GHz)
- For WLAN at the 5 GHz-Band (UNII / ISM: 5.150 5.825 GHz)
- Easy (manual) installation
- Silver plated
- Watertight (IP67/IP68)
- Corrosion resistant
- O-ring sealing





NM50V58

NF50V58

The connector was specially designed for the use at the US unlicensed WLAN 5 GHz Band (UNII / ISM: 5.150 to 5.825 GHz). The two-part connector is easy to install. No special tool is needed. The watertightness is made using a silicone o-ring.

SPECIFICATIONS

Connector type	N-male	N-female		
Electrical specifications				
• Nominal impedance $[\Omega]$	50			
Frequency range	DC to 6 GHz			
 Return Loss,1 m Jumper, 5.15 - 5.825 GHz [dB] 	> 25			
Reflection coefficient @ 6 GHz [dB]	≤ 0.02 (≥ 35)			
 Insulation resistance [GΩ] 	≥5			
Test voltage (at sea level) [kV rms, 50Hz]	2.5			
Working voltage (at sea level) max. [kV rms,50Hz]	1			
Max. peak power [kW]	10			
Screening effectiveness @ 1 GHz [dB] Gardent resistance (subtract and the college)	> 128			
 Contact resistance (outer contact) [mΩ] Contact resistance (inner contact) [mΩ] 	≤1 ≤1			
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Mechanical specifications				
Coupling torque [Nm]	8			
Cable retention [N]	> 4	100		
Outer diameter [mm]	29			
• Length [mm]	78,5	78		
Weight [g]	176	174		
Environmental specifications				
Temperature range	-40 °C to +70 °C (-40 °F to +158 °F)			
Degree of protection (mated connectors)	IP67/IP68			
Materials				
Center conductor	Brass (gold-plated)	bronze (gold-plated)		
Connector body	silver / nickel plated brass			
Insulator	PTFE			
Gaskets	Silicone rubber			
Cable dimensions				
Inner conductor [mm]	7.04 ± 0.05			
Outer conductor outer diameter [mm]	19.7 ± 0.3			
Jacket [mm]	21.9 ± 0.4			

PRODUCT OVERVIEW

Product reference	Туре	Sealing	Part#
• NM50V58	N-Male	O-ring	A153996
• NF50V58	N-Female	O-ring	A154996