



Connector 1/4" for EC1-50 (5062)

FEATURES

- Low reflection coefficient (up to 2.5 GHz)
- Low PIM level
- High contact force through inner contacts made in a high-strength copper alloy
- Gland on the cable
- Watertight (IP67/IP68)
- Corrosion resistant
- Quick trimming tool
- O-ring seal integrated in connector





The connectors are designed according the standard interface N. Contact components are silver or trimetal plated to minimize insertion loss and passive intermodulation products; mechanical parts are nickel plated for heavy-duty handling and best corrosion resistance. Watertightness is achieved by using silicone o-rings and a gland with nitrile o-ring on the cable to resist in the toughest environmental conditions. For a cost effective, easy and reliable installation, special trimming tools are recommended.

SPECIFICATIONS

Connector type	N-male	N-female	N-male right angle
Electrical specifications			
Nominal impedance [Ω] Reflection coefficient @ 2.5 GHz Insulation resistance [GΩ]	≤(50 0.02 ≥ 5	≤ 0.03
Test voltage (at sea level) [kV rms, 50Hz] Working voltage (at sea level) [kV rms,50Hz]		2.5* 1	
Max. peak power [kW] Screening effectiveness up to 1 GHz [dB] Contact resistance (outer contact) [mΩ]		10 > 128 ≤ 1	
Contact resistance (inner contact) $[m\Omega]$ PIM ratio (2 x 20 W carrier) [dBc]		≤ 1.5 ≤ 1.5 ≤ -155 (Typical -163)	
Mechanical specifications			
Torque of coupling mechanism [Nm] Tensile strength of coupling mechanism [N] Cable retention [N] Mechanical endurance (Nr of couplings) Outer diameter [mm]		3 to 5 400 > 400 ≥500 22	
Length [mm] Weight [g]	62	65 56	69 x 31 90
Environmental specifications			
Temperature range Degree of protection Climatic & moisture resistance test Corrosion resistance test Vibration test	-40 °C to +85 °C (-40 °F to +185 °F) IP67/IP68 (mated connectors) acc. ANSI/SCTE 72 2002 R2007 (-40 °C / +60 °C @ 75% r.h.) for 2 weeks acc. IEC 60068-2-11-Test Ka acc. IEC 60068-2-6 (10 to 500 Hz @ 10 G)		
Materials			
Externals parts Outer contact Inner contact Dielectric O-rings	Brass with passivated silver or trimetal or electroless nickel plating Brass with passivated silver or trimetal plating Passivated silver plated high-strength copper alloy and brass PTFE PTFE PTFE PTFE & TPX High quality silicone & nitrile		
Cable dimensions [mm]		3 4	
Inner conductor (helicoids) inner diameter Outer conductor outer diameter Jacket outer diameter	2.3 to 2.43 6.5 to 7.8 9.0 to 10.2		
Order codes			

(refer to the datasheet of the cable, where the peak voltage is given with a safety margin).

