



TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables

Kabelwerk

EUPEN AG

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cable

Connectors for EUCARAY® RC400 radiating cables

FEATURES

- **High contact force and inner contacts made in a high-strength copper alloy**
- **Watertight (IP67/IP68)**
- **Corrosion resistant**
- **Quick trimming tool**
- **Installation "fit on and tighten it"**



NF50RC400



NM50RC400

The connectors are designed according the standard interfaces as N. Contact components are silver plated to minimize insertion loss; mechanical parts are nickel plated for best corrosion resistance. The special quick trimming tool make installation very easy and cost effective in time.

SPECIFICATIONS

Connector type	N-male		N-female	
Electrical specifications				
• Nominal impedance [Ω]			50	
• Reflection coefficient @ 3 GHz / 6 GHz [dB]			≥ 35 / ≥ 30	
• Insulation resistance [G Ω]			≥ 5	
• Test voltage (at sea level) [kV rms, 50Hz]			2.5	
• Working voltage (at sea level) [kV rms,50Hz]			1	
• Contact resistance (outer contact) [m Ω]			≤ 2	
• Contact resistance (inner contact) [m Ω]			≤ 2	
Mechanical specifications				
• Torque of coupling mechanism [Nm]			3 to 5	
• Tensile strength of coupling mechanism [N]			400	
• Cable retention [N]			> 400	
• Mechanical endurance (Nr of couplings)			≥ 500	
• Length [mm]	53			52
• Weight [g]	51			47
Environmental specifications				
• Temperature range	-40 °C to +65 °C (-40 °F to +149 °F)			
• Degree of protection	IP67/IP68 (mated connectors)			
Materials				
• Externals parts	Passivated silver plated or electroless nickel plated brass			
• Outer contact	Passivated silver plated brass			
• Inner contact	Passivated silver plated high-strength copper alloy and brass			
• Dielectric	PTFE or TPX			
• Gaskets	High quality silicone & nitrile			
Tool codes				
	SPTC50RC400			
Connectors codes				
	NM50RC400		NF50RC400	