



# 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 CuBe2**
- **Silver plated**
- **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 [dB]	≥ 35	
• Insulation resistance [GΩ]	≥ 5	
• Test voltage (at sea level) [kV rms, 50Hz]	2.5	
• Working voltage (at sea level) [kV rms,50Hz]	1	
• Contact resistance (outer contact) [mΩ]	≤ 2	
• Contact resistance (inner contact) [mΩ]	≤ 2	
Mechanical specifications		
• Torque of coupling mechanism [Nm]	8	
• Tensile strength of coupling mechanism [N]	400	
• Cable retention [N]	> 400	
• Mechanical endurance (Nr of couplings)	≥ 500	
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 CuBe2	
• Dielectric	PTFE	
• Gaskets	High quality silicone & nitrile	
Tool codes		
	SPTC50RC400	
Connectors codes		
	NM50RC400	NF50RC400