



# 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
<b>Electrical specifications</b>		
• Nominal impedance [ $\Omega$ ]		50
• Reflection coefficient @ 3 GHz / 6 GHz [dB]		$\geq 35$ / $\geq 30$
• Insulation resistance [ $G\Omega$ ]		$\geq 5$
• Test voltage (at sea level) [kV rms, 50Hz]		2.5
• Working voltage (at sea level) [kV rms, 50Hz]		1
• Contact resistance (outer contact) [m $\Omega$ ]		$\leq 2$
• Contact resistance (inner contact) [m $\Omega$ ]		$\leq 2$
<b>Mechanical specifications</b>		
• Torque of coupling mechanism [Nm]		3 to 5
• Tensile strength of coupling mechanism [N]		400
• Cable retention [N]		> 400
• Mechanical endurance (Nr of couplings)		$\geq 500$
• Length [mm]	53	52
• Weight [g]	51	47
<b>Environmental specifications</b>		
• Temperature range	-40 °C to +65 °C (-40 °F to +149 °F)	
• Degree of protection	IP67/IP68 (mated connectors)	
<b>Materials</b>		
• Externals parts	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	
<b>Tool codes</b>		
	SPTC50RC400	
<b>Connectors codes</b>		
	NM50RC400	NF50RC400