



# TECHNICAL DATA SHEET

## 50 ohm Connectors for Radiating Cables

Kabelwerk

**EUPEN** AG

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# Connectors for LSC/RMC 5/8" radiating cables

## FEATURES

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



NF50R58

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 heavy-duty handling and best corrosion resistance. The special quick trimming tool make installation very easy and cost effective in time.

## SPECIFICATIONS

### Connector type

### N-female

Electrical specifications	
• Nominal impedance [ $\Omega$ ]	50
• Reflection coefficient @ 3 GHz [dB]	$\geq 35$
• 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) [ $m\Omega$ ]	$\leq 2$
Mechanical specifications	
• Torque of coupling mechanism [Nm]	3 to 5
• Tensile strength of coupling mechanism [N]	400
• Cable retention [N]	$> 500$
• Mechanical endurance (Nr of couplings)	$\geq 500$
• Length [mm]	63
• Weight [g]	190
Environmental specifications	
• Temperature range	40 °C to +85 °C (-40 °F to +185 °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 and (or) TPX
• Gaskets	High quality silicone & nitrile
Tool codes	
• 5/8"	SPTC50R58
Connectors codes	
• 5/8"	NF50R58