



# TECHNICAL DATA SHEET

## 50 ohm Connectors for Radiating Cables

Kabelwerk | **EUPEN** AG

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**cable**

# Connectors for LSC/RMC 1/2" 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"**
- **New 4.3-10 interface available**



43FR12



NF50R12

The connectors are designed according the standard interfaces as 4.3-10, N or DIN 7-16. 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-male	N-female	7-16 female	4.3-10 female
<b>Electrical specifications</b>				
• Nominal impedance [ $\Omega$ ]		50		
• Reflection coefficient @ 3 GHz [dB]		$\geq 35$		
• Insulation resistance [ $G\Omega$ ]	$\geq 5$		$\geq 10$	$\geq 5$
• Test voltage (at sea level) [kV rms, 50Hz]	2.5		4	2,5
• Working voltage (at sea level) [kV rms, 50Hz]	1		2.7	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]	8		30	5
• Tensile strength of coupling mechanism [N]	400		1000	500
• Cable retention [N]	> 500		> 1000	500
• Mechanical endurance (Nr of couplings)		$\geq 500$		
<b>Environmental specifications</b>				
• Temperature range	-40 °C to +85 °C (-40 °F to +185 °F)			
• Degree of protection	IP67/IP68 (mated connectors)			
<b>Materials</b>				
• 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			
<b>Tool codes</b>				
• 1/2"	SPTC50R12			
<b>Connectors codes</b>				
• 1/2"	NM50R12	NF50R12	716FR12	43FR12