



# TECHNICAL DATA SHEET

## 50 ohm Connectors for Radiating Cables

Kabelwerk | **EUPEN** AG

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**cable**

# Connectors for LSC/RMC 1/2", 5/8", 7/8" 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"**



The connectors are designed according the standard interfaces as 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.

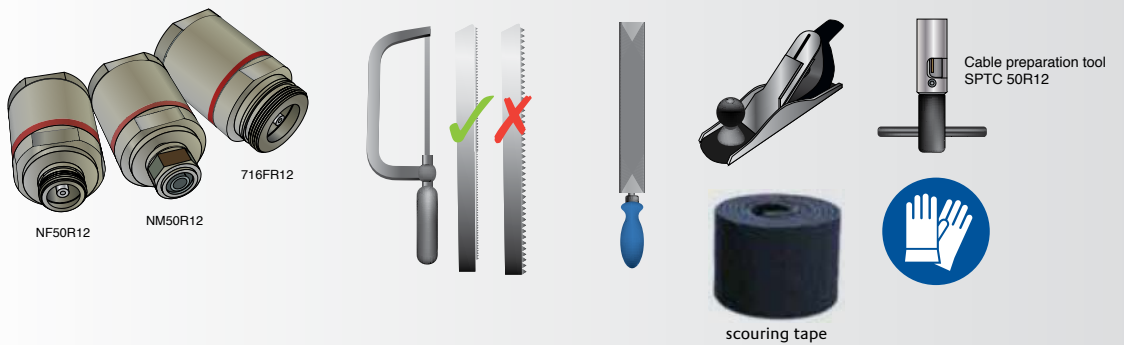
### SPECIFICATIONS

Connector type	N-male	N-female	7-16 male	7-16 female
<b>Electrical specifications</b>				
• Nominal impedance [ $\Omega$ ]			50	
• Reflection coefficient @ 3 GHz [dB]			$\geq 35$	
• Insulation resistance [ $G\Omega$ ]	$\geq 5$			$\geq 10$
• Test voltage (at sea level) [kV rms, 50Hz]	2.5			4
• Working voltage (at sea level) [kV rms, 50Hz]	1			2.7
• 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
• Tensile strength of coupling mechanism [N]	400			1000
• Cable retention [N]	$> 500$			$> 1000$
• 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	
• 5/8"			SPTC50R58	
• 7/8"			SPTC50R78	
<b>Connectors codes</b>				
• 1/2"	NM50R12	NF50R12	-	716FR12
• 5/8"	NM50R58	NF50R58	-	-
• 7/8"	NM50R78	NF50R78	-	716FR78



# CONNECTORS INSTALLATION FOR RADIATING CABLES 1/2"

## Typical installation of radiating cables.



	NF, 7-16F	NM	7-16M
	2 x 22 mm	2 x 22 mm & 19 mm	2 x 22 mm & 32 mm

