



TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables

Kabelwerk | **EUPEN** AG

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cable

Connectors for LSC/RMC 7/8" 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"**



NM50R78A

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
Electrical specifications				
• Nominal impedance [Ω]			50	
• Reflection coefficient @ 3 GHz [dB]			≥ 35	
• Insulation resistance [$G\Omega$]	≥ 5			≥ 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 Ω]			≤ 2	
• Contact resistance (inner contact) [m Ω]			≤ 2	
Mechanical specifications				
• 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)			≥ 500	
Environmental specifications				
• Temperature range	-40 °C to +85 °C (-40 °F to +185 °F)			
• Degree of protection	IP67/IP68 (mated connectors) ⁽¹⁾			
Materials				
• Externals parts	Passivated silver plated or trimetal nickel plated brass			
• Outer contact	Passivated silver or trimetal 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				
• 7/8"	SPTC50R78			
Connectors codes				
• 7/8"	NM50R78A	NF50R78A	-	716FR78A

⁽¹⁾ For installations in harsh environments, the use of an optional Heat-Shrink is recommended.