



TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables

Kabelwerk **EUPEN** AG

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cable

for 1/2" up to 1-5/8" radiating cables

FEATURES

- **High contact force and Cu-Be inner contacts**
- **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
Electrical specifications				
• Nominal impedance [Ω]			50	
• Reflection coefficient @ 2.5 GHz			≤ 0.03	
• 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) [$m\Omega$]			≤ 2	
• Contact resistance (inner contact) [$m\Omega$]			≤ 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)			
Materials				
• Externals parts	Passivated silver plated or electroless nickel plated brass			
• Outer contact	Passivated silver plated brass			
• Inner contact	Passivated silver plated Cu-Be and brass			
• Dielectric	PTFE and (or) TPX			
• Gaskets	High quality silicone & nitrile			
Tool codes				
• 1/2"			SPTC50R12	
• 5/8"			SPTC50R58	
• 7/8"			SPTC50R78	
• 1-1/4"			SPTC50R114	
• 1-5/8"			SPTC50R158	
Connectors codes				
• 1/2"	NM50R12	NF50R12	-	716FR12
• 5/8"	NM50R58	-	-	716FR58
• 7/8"	NM50R78	NF50R78	716FR78	-
• 1-1/4"	NM50R114	NF50R114	716MR114	716FR114
• 1-5/8"	NM50R158	NF50R158	716MR158	716FR158

