



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 to 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
Electrical specifications				
• Nominal impedance [Ω]		50		
• Reflection coefficient @ 3 GHz [dB]		≥ 35		
• Insulation resistance [G Ω]	≥ 5		≥ 10	≥ 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 Ω]		≤ 2		
• Contact resistance (inner contact) [m Ω]		≤ 2		
• PIM ratio (2 x 20 W carrier) [dBc]	-		≤ -155	
Mechanical specifications				
• Torque of coupling mechanism [Nm]	3 to 5		30	5
• Tensile strength of coupling mechanism [N]	400		1000	500
• Cable retention [N]	> 500		> 1000	500
• 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		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				
• 1/2"		SPTC50R12		
Connectors codes				
• 1/2"*	NM50R12	NF50R12	716FR12	43FR12

* not suitable for 1/2" "A" Series cables