



TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables

Kabelwerk **EUPEN** AG

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cable

Connectors for RMC 1/2" radiating cables "A" Series

FEATURES

- **High contact force and inner contacts made in a high-strength copper alloy**
- **Silver plated**
- **Watertight (IP67/IP68)**
- **Corrosion resistant**
- **"L" connectors dedicated for EUCARAY® "A" Series Radiating Cables**



43FR12L



NF50R12L

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
Electrical specifications				
• Nominal impedance [Ω]		50		
• Reflection coefficient @ 3 GHz [dB]		≥ 35		
• Insulation resistance [$G\Omega$]	≥ 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		
Mechanical specifications				
• Torque of coupling mechanism [Nm]	3 to 5		30	5
• Tensile strength of coupling mechanism [N]	400		1000	100
• 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" "A" Series cables ⁽¹⁾	NM50R12L ⁽²⁾	NF50R12L	716FR12L ⁽²⁾	43FR12L

⁽¹⁾ RMC12 "A" Series cables with B2_{ca} and HLFRU suffix

⁽²⁾ available on request and MOQ