TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables

Kabelwerk EUPEN AG

Rev.: 03/2017-09-28 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 [GΩ]	≥ 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) [mΩ]	≤ 2			
• Contact resistance (inner contact) [mΩ]	≤ 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.

ISO Certified Company KABELWERK EUPEN AG - Malmedyer Straße 9 - 4700 EUPEN - BELGIUM Tel.: +32(0) 87.59.70.00 - Fax : +32(0) 87.59.71.00 - http://www.eupen.com - e-mail: info@eupen.com