

TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables



Connectors for LSC/RMC 7/8" radiating cables

FEATURES

- High contact force and inner contacts made in a high-strength copper alloy
- Silver or Trimetal Plated
- Watertight (IP67/IP68)
- Corrosion resistant
- Quick trimming tool
- Installation "fit on and tighten it"
- New 4.3-10 interface available









NF50R78L

The connectors are designed according the standard interfaces as 4.3-10, N or DIN 7-16. Contact components are silver or trimetal plated to minimize insertion loss and passive intermodulation products. 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 [GΩ] Test voltage (at sea level) [kV rms, 50Hz] 	≥ 5 2.5		≥ 10 4	≥ 5 2.5
Working voltage (at sea level) [kV rms, 50Hz]	1		2.7	1.0
• Contact resistance (outer contact) $[m\Omega]$	· ≤2			≤ 1.0
 Contact resistance (inner contact) [mΩ] 	≤2			≤ 1.0
• PIM ratio (2 x 20 W carrier) [dBc]	-		≤-155	
Mechanical specifications				
Torque of coupling mechanism [Nm]	8		30	5 to 8
Tensile strength of coupling mechanism [N]	400		1000	500
Cable retention [N]	> 500		> 1000	> 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 or nickel plated brass			
Outer contact	Passivated silver or trimetal plated brass			
Inner contact	Passivated silver plated high-strength copper alloy and brass			
Dielectric Gaskets	PTFE and (or) TPX			
	High quality silicone & nitrile			
Tool codes				
• 7/8"	SPTC50R78			
Connectors codes				
• 7/8" with O.D. 27 mm (2)	NM50R78A	NF50R78A	716FR78A	43FR78A
• 7/8" with O.D. 28 mm ⁽³⁾		NF50R78L	716FR78L	43FR78L

 $^{^{\}scriptscriptstyle (1)}$ For installations in harsh environments, the use of an optional Heat-Shrink is recommended. $^{\scriptscriptstyle (2)}$ RMC 78 and LSC 78 cables with HLFR suffix or without suffix (PE version). $^{\scriptscriptstyle (3)}$ RMC 78 cables with HLFRB/D, HLFRU, HLFRC, HLFR-C $_{\rm Ca}$ and HLFR-B2 $_{\rm Ca}$ suffix.