TECHNICAL DATA SHEET

50 ohm Connectors for Radiating Cables



NEW DESIGN Connector for LSC/RMC 158 (1" 5/8) radiating cables

FEATURES

- Low reflection coefficient (up to 3.0 GHz)
- High contact force through inner contacts made in a high-strength copper alloy
- Monoblock mounting
- Silver plated
- Watertight (IP67/IP68)
- Corrosion resistant
- Quick trimming tool for cable preparation
- O-ring sealing





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. Watertightness is achieved using silicone o-rings to resist in the toughest environmental conditions. Special trimming tools are recommended.

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] 	≥		≥ .		
Test voltage (at sea level) [KV rms, 50Hz]		.5	4	•	
• Working voltage (at sea level) [KV rms,50Hz]	1	.0	2. 128	1	
 Screening effectiveness up to 1 GHz [dB] Contact resistance (outer contact) [mΩ] 			1.0		
• Contact resistance (onter contact) $[m\Omega]$			1.0		
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Mechanical specifications		-		-	
Torque of coupling mechanism [Nm]	8 400		-	30 700	
Tensile strength of coupling mechanism [N] Cable retention [N]	40)0	
Cable retention [N] Mechanical endurance (Nr of couplings)	> 1000 ≥ 500				
Outer diameter [mm]	63				
• Length [mm]	93	88	83	83	
Weight [g]	722	710	730	725	
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 high-strength copper alloy				
Dielectric	TPX				
• O-rings	High quality silicone & Nitrile				
Cable dimensions [mm]					
 Inner conductor inner diameter 	14.3 to 14.7				
Jacket outer diameter	47.0 to 49.0				
Order codes					
O-ring connector type	NM50R158MPA	NF50R158MPA	716MR158MPA	716FR158MPA	
Special trimming tool	SPTC50R158E				

ISO