

# LT-7/16SF-1-1/4

## 7/16 Straight Female Connector for 50-33 Flexible RF Cable

The LT-7/16SF-1-1/4 is a high-quality 7/16 DIN Female Connector built for 1-1/4" coaxial cables, offering robust performance in high-power RF transmission systems. Known for its excellent low-loss characteristics and high durability, this connector is widely used in telecommunications, broadcast, and wireless infrastructure.

Its precision design ensures secure, stable connections with minimal signal reflection, making it suitable for both indoor rack systems and outdoor base station deployments. It is built to meet rigorous environmental and operational standards.

### Key Features

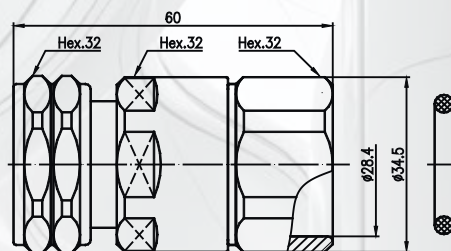
- Designed for 1-1/4" coaxial cable
- 7/16 DIN female interface
- Low VSWR for minimal signal loss
- Durable and weather-resistant construction
- Corrosion-resistant plating
- Easy and secure installation
- High power handling capacity
- Excellent shielding against interference

### Applications

- Telecommunications base stations
- Broadcast and antenna systems
- RF transmission lines and feeders
- Outdoor wireless communication setups
- Industrial high-frequency equipment
- Signal distribution networks in critical infrastructure

### Ordering Information

The LT-7/16SF-1-1/4 is a 7/16 DIN female low-PIM RF connector (50  $\Omega$ , DC–3.8 GHz) with silver-plated tin-bronze contacts, TPX insulator, IP68 sealing, and compliant with ISO 9001:2015.



### Specifications

PART NUMBER		LT-7/16SF-1-1/4	
Inner Conductor		Tin Bronze / Silver Plating	
Outer Conductor & Body		Brass / Trimetal Plating	
Insulator		TPX	
Gasket		Silicon Rubber	
Electrical Specifications			
Characteristic Impedance		50 Ohm	
Interface Frequency Range		DC~3.8GHz	
Insulation Resistance		≥5000MΩ	
Dielectric Withstanding Voltage		4000V rms	
Operating Voltage		2700V rms	
Center Contact Resistance		≤0.4 mΩ	
Outer Contact Resistance		≤0.2 mΩ	
Insertion Loss		@DC-3.8 GHz	≤0.1dB
VSWR		@0.8-1.0 GHz	≤1.10
		@1.7-3.0 GHz	≤1.13
		@3.0-3.8 GHz	≤1.15
		PIM3 ( 2*43dBm)	
Environmental & Mechanical Specifications			
Mating Durability		≥500 cycles	
Mechanical Shock Test Method		MIL-STD-202, Method 213, Test	
Vibration Test Method		MIL-STD-202, Meth. 204, Cond. A	
Temperature Range		-45°C to +85°C	
RoHS		Compliant	
Sealing Class		IP68 24hr, 1m, 20 C	
Regulatory Compliance / Certification			
ISO 9001:2015		Compliant	

