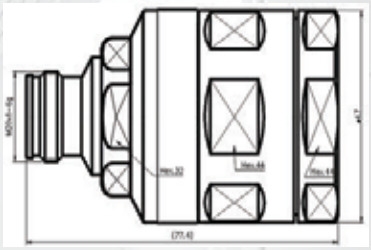
LT-4310SF-1-1/4

4.3-10 Straight Female Connector for 50-33 Flexible RF Cable



The LT-4310SF-1-1/4 is a precision-built 4.3-10 Female Connector designed for 1-1/4" coaxial cables, offering low passive intermodulation (PIM) and excellent signal integrity. It is ideal for modern telecom applications, including 5G, LTE, and high-frequency RF systems, where compact size, high performance, and low interference are critical.

Its advanced design ensures secure and low-loss connectivity in both indoor and outdoor environments, making it a reliable choice for antenna systems, distributed antenna systems (DAS), and base stations.

Key Features

- Fits 1-1/4" coaxial cable
- 4.3-10 female connector interface
- Low Passive Intermodulation (PIM)
- Compact and lightweight design
- Corrosion-resistant and weatherproof
- Easy installation with standard tools
- Suitable for high-frequency, high-power systems

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-4310SF-1-1/4 belongs to the High-Performance RF Connector Series (50 Ω, DC–3.8 GHz, low-PIM, IP68 sealing).

Specifications

Part number	**LT-4310SF-1-1/4**	
Inner Conductor	Tin-bronze / Silver Plating	
Outer Conductor & Body	Tin-bronze / Silver Plating	
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	2500V rms	
Operating Voltage	1500V rms	
Center Contact Resistance	≤1.00 mΩ	
Outer Contact Resistance	≤0.6 mΩ	
Insertion Loss	@DC-3.8 GHz	≤0.1dB
VSWR	@0.8-1.0 GHz	≤1.10
	@1.7-2.7 GHz	≤1.13
	@3.0-3.8 GHz	≤1.15
PIM3（2*43dBm）	@1800MHz	≤-160dBc
Environmental and 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	