



P/N 431-113J-52S

Overview

Amphenol RF Low PIM 4.3/10 connectors offer excellent VSWR performance up to 6.0 GHz in a robust, weather-resistant design that is smaller and up to 40% lighter than 7/16 connectors, allowing for higher density applications.

Features and Benefits

- Separate electrical and mechanical contacts yield PIM performance better than 7/16 connectors, even when hand-mated
- 50 Ohm nominal impedance
- Smaller and up to 40% lighter than 7/16 connectors
- Ideal for applications requiring low PIM and low attenuation
- IP-67 compliant in the unmated condition

Applications

- Distributed Antenna Systems (DAS)
- Base Stations
- Wireless Infrastructure
- Telecom
- Filters and Combiners

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

4.3/10 Connector Series

6.0 GHz VSWR performance Low PIM connectors



P/N 431-130J-52S



P/N 431-113J-52S

Panel Receptacles	
RF P/N	Description
431-127J-52S	4.3-10 4-Hole Flange Jack with recessed M3 threaded contact
431-113J-52S	4.3-10 4-Hole Flange Jack with recessed M3 threaded contact, extended body
431-129J-52S	4.3-10 4-Hole Flange Jack with Solder Cup
431-116J-52S	4.3-10 4-Hole Flange Jack with Solder Cup, extended body
431-130J-52S	4.3-10 4-Hole Flange Jack with M3 threaded contact
431-117J-52S	4.3-10 4-Hole Flange Jack with M3 threaded contact, extended body
431-131J-52S	4.3-10 4-Hole Flange Jack with post contact
431-118J-52S	4.3-10 4-Hole Flange Jack with post contact, extended body



P/N 431-128J-52S



P/N 431-115J-52S

Panel Mount Cable Jacks	
RF P/N	Description
431-119J-52S	4.3-10 4-Hole Flange Jack for .086" Semi-Rigid
431-128J-52S	4.3-10 4-Hole Flange Jack for .141" Semi-Rigid
431-114J-52S	4.3-10 4-Hole Flange Jack for .141" Semi-Rigid, extended body
431-115J-52S	4.3-10 4-Hole Flange Jack for .250" Semi-Rigid



P/N 431-124P-52S



P/N 431-126A-52S

Cable Mount Plugs	
RF P/N	Description
431-123P-52S	4.3-10 Straight Plug for .141" Semi-Rigid/RG-402 Cable
431-124P-52S	4.3-10 Straight Plug for .250" Semi-Rigid/RG-401 Cable
431-126A-52S	4.3-10 Straight Plug for 1/2" Superflex (Helical) Cable
431-125A-52S	4.3-10 Straight Plug for 1/2" Standard (Annular) Cable

Electrical	
Impedance	50 Ω
Frequency	DC to 6 GHz
VSWR	
DC to 4 GHz	0.05 max. (RL ≥ 36 dB)
4 to 6 GHz	0.025 max. (RL ≥ 32 dB)
Center and outer contact resistance	≤ 1.0 mΩ
Insulation resistance 9.2.5. initial ≥ 5 GΩ	≥ 5 GΩ
Proof voltage at sea level	2500 V
PIM	
2 x 20 W	-166 dBc (0.4 to 4 GHz)
2 x 40 W	-160 dBc (0.4 to 4 GHz)

Environmental	
Temperature Range	-55 to +90 0C

Mechanical	
Mating cycles	>100
Center contact captivation (axial force)	30 N
Coupling torque	≥ 5 Nm
Engagement force	typ. 100 N
Separation force	typ. 80 N
Coupling mechanism retention force	≥ 450 N
Vibration	100 m/s ² , 10 g acceleration, 2 - 200 Hz
Shock	981 m/s ² , 100 g acceleration, 1/2 sin 6 ms