



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

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For more information visit www.amphenorlf.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 |