



4.3-10

The light and reliable multi-plug solution

May 2014 | 4.3-10 connectors

Agenda

Design of 4.3-10 interface

Features and benefits

Performances

Portfolio

Applications

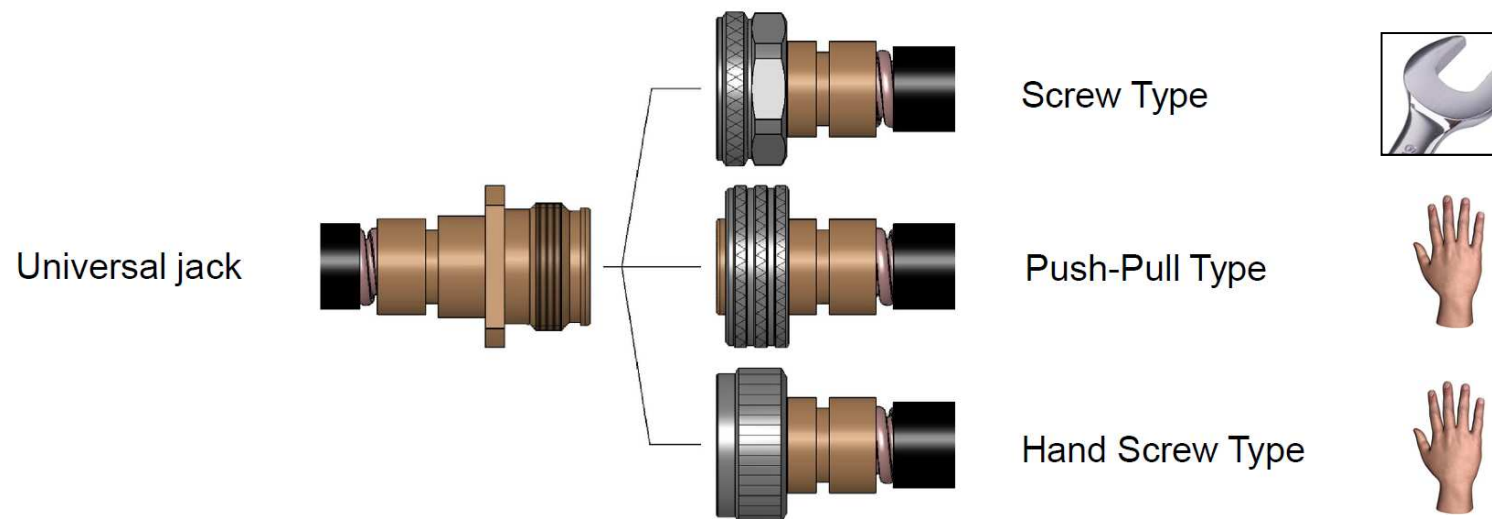


- Base stations
- DAS
- Small cells
- In all applications where space is a challenge and reliable electrical performances are a must

Design of 4.3-10 Interface

Versatile solution with one universal jack and three different plug types

- Fast installation (hand screw, or push pull)
- Tool installation for highest performances



Design of 4.3-10 interface

1 universal jack (female) matching 3 plugs (male)



Tool installation
highest RF leakage

Tool-less installation
Same performance of PIM and RL

4.3-10 animation video



Features of 4.3-10 interface



- **Excellent RL and PIM performances** independently from torque or mechanism
- **High screening efficiency**
- **Electrical contact protected** against hits
- **Compactness:** the connector is fitting in 1 inch flange (25.4 mm)
- **Low weight** (up to 60% lighter compared to bigger RF interfaces)
- **3 possible mechanical connections** (screw, hand screw and quick lock) on 1 universal female connector
- **IEC standardization**

Benefits of 4.3-10 interface

High density design

- Due to the smaller flange, compactness
- Due to a minimum pitch of 25.4 mm for hand screw and quick lock

Light weight modules

- Due to low weight components
- no need of thick-walled modules (no torque or small torque required)

High flexibility

- in the choice of the best matching coupling mechanism according to the application

Reliable electrical performance

Easy installation

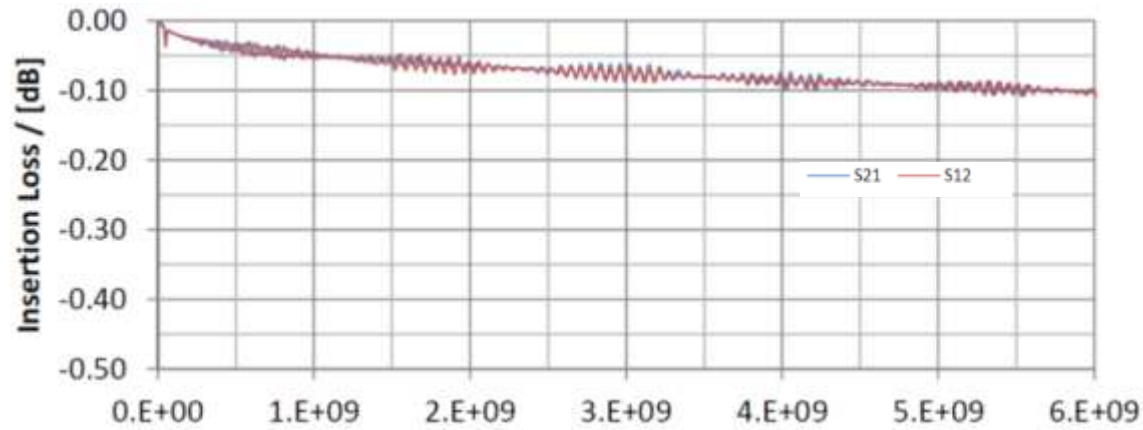


Interface performances

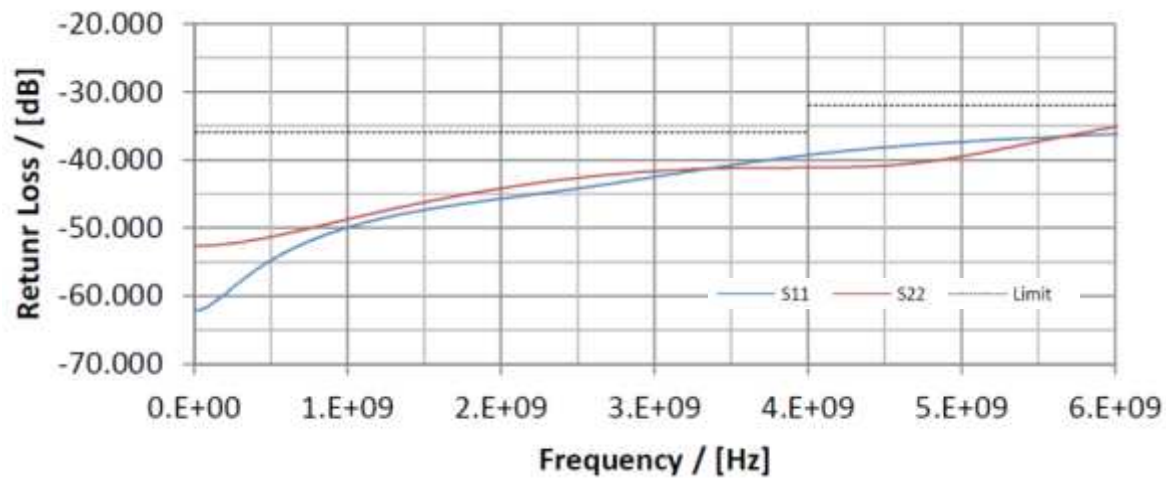
Specifications	Conditions	Requirements
RL	DC-4GHz	≥36dB
	4-6GHz	≥32dB
IL		≤0.05*√freq(GHz)
Power		500W @ 2GHz @ 90°C
PIM		-166dBc @ 2x 20W
		-160dBc @ 2x 40W
RF Leakage	screw	≥ 120 dB @ DC to 6 GHz
	hand screw & quick lock	≥ 90 dB @ DC to 3 GHz
Water tightness		IP 68 (@ 25m, 1 hour)
Operation		100 mating cycles

Measurements plots – RL/IL

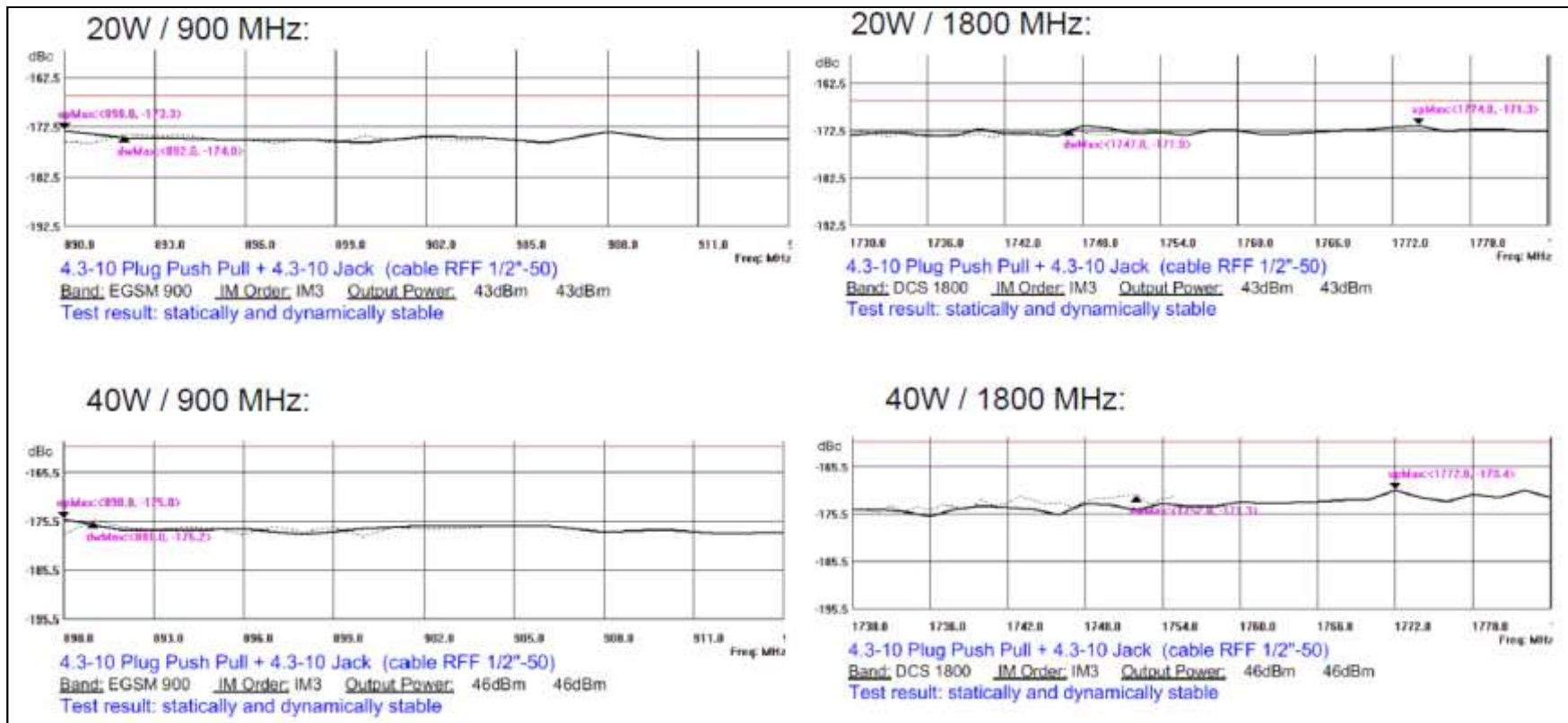
Insertion loss / N-N Ref. plane



RL gated



Measurements plots – PIM



Portfolio

- Cable connectors for corrugated cables and hand formable cable
- Precision adaptors & PIM adaptors
- Panel connectors (also on request)
- Quick fit connectors



Many thanks

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