





Radiall's NEX10[™] series is a miniature and lightweight RF Coaxial connector with excellent intermodulation performance for outdoor telecom applications up to 20 GHz.

Growing demand for new generation equipment within the Telecom market requires a top performance solution with exceptional benefits and features. To develop this solution, Radiall has partnered with two leading RF connector manufacturers to develop a compact, robust, low-PIM connector: the NEX10.

With exceptional performance up to 20 GHz in order to meet the performance needs of customers, NEX10[™] also features a compact design that is 50% smaller than 4.3-10. This unique solution also offers separation of electrical and mechanical reference planes, which maximizes intermodulation performance under static, dynamic vibrations and torque stress conditions.

NEX10[™] is available in multiple configurations:

- Jack: square flange, bulkhead
- *Plug: straight and right angle*
- Screw-on and push-pull coupling mechanism Jumper
- Multi-coax
- Additional boot

MULTI-COAX MODEL





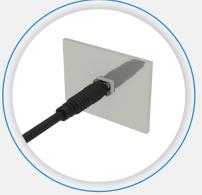






ADDITIONAL BOOTS





One common boot for screw and quick lock models NEX10[™] meets market needs by providing 4.3-10 connector advantages in a smaller size. The more robust and lightweight interface design allows for multi-coax interconnection solution.

Test/Characteristics	Values/Remarks	
Impedance	50 Ω	
Frequency	DC to 20 GHz	
PIM (Passive Intermodulation)	-166 dBc, 2x43 dBm for all coupling types (static and dynamic)	
Power	250 W @ 25 °C 100 W @ 85 °C 50 W @ 105 °C 250 W @ 25 °C	2 GHz
Return Loss (typical)	36 db @ up to 4 GHz	
	34 db @ up to 6 GHz	
	30 db @ up to 10 GHz	
	20 db @ up to 20 GHz	
Durability	100 min. 500 for Test & Measurement types	
Mating Characteristics	Quick-lock engagement force: 50 N Screw-on recommended torque: 3 Nm	
Interface Retention Force	Quick-Lock 150 N min., Screw 500 N min.	
Bending Force	>5 Nm	
Screening Effectiveness	DC to 6 GHz (screw-on): -110 dB min.	
	DC to 3 GHz (quick-lock): -90 dB min.	
	3 to 6 GHz (quick-lock): -70 dB min.	
Surge Current	± 1 kA 10/350 μs pulse and ± 4 kA 8/20 μs pulse	
	± 5 kA 10/350 μs pulse and ± 20 kA 8/20 μs	

FEATURES & BENEFITS

- Robust design for outdoor use
- Low PIM, independent of applied torque
- Multiple coupling mechanism of push pull and torque
- RF shielding
- Optimized for ¼" super-flexible corrugated and smaller flexible cables
- 12.7 mm minimum flange height
- Contact areas protected from damage

APPLICATIONS

- Small cell and MIMO
- DAS/In-building
- Antennas, radios and filter output
- Outdoor and indoor
- Applications requiring PIM stability in a compact size

SIMPLIFICATION is our INNOVATION

• Multi-coax/Blind mate applications

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