



Compact Size for Small Cells

NEX10™: Miniature Low PIM RF Coaxial Connector System for Small Cells

As a leading global manufacturer of RF products, Rosenberger is an active partner in a development group tasked with providing innovative solutions for the telecommunications industry.

The new NEX10™ connector system is designed to meet the existing and future demands of small cell and upcoming 5G networks. The NEX10™ interface offers very low PIM performance in a robust design and compact size.

Connectors in Comparison – Technical Data

Connector Type	NEX10™	4.3-10
Impedance	50 Ω	50 Ω
Frequency range	DC to 20 GHz	DC to 12 GHz
PIM (Passive Intermodulation)	≥ 166 dBc @ 2 × 43 dBm	≥ 166 dBc @ 2 × 43 dBm
Return loss (typical)	≥ 36 dB @ DC to 6 GHz	≥ 36 dB @ DC to 4 GHz
	≥ 30 dB @ 6 - 10 GHz	≥ 32 dB @ 4 - 6 GHz
	≥ 20 dB @ 10 - 20 GHz	
Mating cycles	≥ 100 (standard application)	≥ 100 (standard application)
	≥ 500 for test and measurement types	
Engagement force (push-pull)	50 N typical	100 N typical
Disengagement force (push-pull)	40 N typical	80 N typical
Recommended torque (screw type)	3 Nm	5 Nm
Degree of protection	IP 68 (@ 1 m, 24 hours)	IP 68 (@ 25 m, 1 hour)