



NEX10™

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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ELECTRICAL CHARACTERISTICS

Impedance	50Ω			
Frequency	DC - 20 GHz			
PIM (Passive Intermodulation)	-166 dBc, 2 x 43 & 2 x 40 dBm (Static and Dynamic)			
Power	100 W @ 2 GHz @ 85 °C 50 W @ 2 GHz @ 105 °C 250 W @ 2 GHz @ 25 °C			
Return Loss (Typical)	DC - 4 GHz	4 - 6 GHz	6 - 10 GHz	10 - 20 GHz
	> 36 dB	> 34 dB	> 30 dB	> 20 dB
Screening Effectiveness • DC to 6 GHz (Torque Type) • DC to 3 GHz (Push-Pull) • 3 to 6 GHz (Push-Pull)	• 110 dB typical • 90 dB typical • 70 dB typical			
Lightning Protection • Center Conductor • Outer Conductor	±1 kA 10/350 µs pulse and ±4 kA 8/20 µs pulse ±1 kA 10/350 µs pulse and ±4 kA 8/20 µs pulse			
Contact Resistance	Center Contact 2.0 mΩ Outer Contact 1.0 mΩ			
Voltage	Operating Voltage: 1 kV Breakdown Voltage: 3 kV			

MECHANICAL CHARACTERISTICS

Coupling Mechanisms	Torque, Push-Pull
Durability (Mating Cycles)	100 min. 500 for Test and Measurement Types
Boot Protection	Designated Area for Sealing
Mating Characteristics • Quick-Lock - Engagement Force - Disengagement Force • Screw - Recommended Torque	50 N Typical 35 N Typical 1.5 Nm (Maximum 5 Nm)
Interface Retention Force	Quick-Lock: 150 N min. Screw: 500 N min.
Cable Size Diameter	Optimized for Cables up to 1/4"
Bending Force	5 Nm

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-55 °C / +125 °C
Corrosion	48 Hours Salt Mist Test
Interface Ingress Protection	IP68 (24 hrs, 1 m, Room Temp, Mated Pair)
RoHS	Compliant