

2.2-5 RF Connector System and Cable Assemblies



Molex 2.2-5 RF Connector System and Cable Assemblies deliver high frequency and low passive intermodulation (PIM) in a form factor that is 53% smaller than the 4.3-10 Connector System, making them ideal for compact mobile radio applications

Features and Advantages

Air dielectric interface

Enables superior bandwidth and low insertion loss

Low PIM

Enables wireless service providers to build networks capable of superior performance

Broad cable selection

Offers low losses and long distances

3 mating options: push-pull, wrench tighten, hand tighten

Offers design flexibility, depending on application needs, without compromising electrical performance. Provides easy installation

Ground spring on the panel-mounted jack

Hands PIM control to equipment manufacturer



2.2-5 Cable Assemblies with Wrench-Tightened Locking Style

Robust design, high protection, IP68 NEMA rating

Protects contacts from damage. Delivers mechanical sturdiness. Prevents water and dust ingress



Mated 2.2-5 RF Cable Assembly

Applications

Telecommunications/Networking

Wireless Radios

Antennas

Mobile Communications

Small form factor, miniature design

Provides space savings. Delivers the form factor of TNC Miniature RF Connectors



2.2-5 RF Connector System and Cable Assemblies



Specifications

REFERENCE INFORMATION

Packaging: Tray, Carton
UL File No.:
CSA File No.:
Mates with: series 73225 2.2-5
Plugs mate with series 73225 Jacks
Use with: Coaxial or Fit Cable: 12.7mm (0.5")
foam or flexible models
Designed in: Millimeters
RoHS: Yes

ELECTRICAL

Voltage: 1800Vrms @ sea level
Frequency (max.): DC to 12 GHz
Impedance: 50 Ohms
Dielectric Withstanding Voltage:
2500V AC @ 0.5mA
Contact Resistance:
Center Contact: ≤ 1 milliohm
Outer Contact: ≤ 1 milliohm
Insulation Resistance: ≥ 5000 Megohms
VSWR:
 ≤ 1.03 DC to 4 GHz
 ≤ 1.05 4 to 6 GHz
RF Insertion Loss: $\leq 0.05 \times \sqrt{f}$ (GHz) dB
Center Contact Resistance: ≤ 1 milliohms
Outer Contact Resistance: ≤ 1 milliohms
PIM3 (Typical): -166dBc (2x43dBm)

MECHANICAL

Mating Torque: 5 to 8Nm
Coupling Proof Torque: 8Nm
Coupling Nut Retention Force: ≥ 450 N
Engagement Force (Quick Lock): 100N
Disengagement Force (Quick Lock): 80N
Durability: 100 Cycles
Sealing: IP68

PHYSICAL

Housing: Brass
Contact: Phosphor Bronze
Plating:
Contact Area — Silver
Insulator: Teflon
O-Ring: Silicone Rubber
Operating Temperature: -55 to +90°C

Ordering Information

Series No.	Component
73225	2.2-5 Jack
	2.2-5 Plug

Custom Product	Component
Contact Molex	2.2-5 Cable Assembly

www.molex.com/link/2_2-5.html

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