

INTERFACE DESIGN STANDARD		<div>The PHOENIX Company of Chicago, Inc.</div> <div>22 GREAT HILL RD., NAUGATUCK, CT 06770</div> <div>WWW.PHOENIXOFCHICAGO.COM</div> <div>PHONE: (800) 323-9562 FAX: (630) 206-1801</div>	REV.	DESCRIPTION	DATE	APPR.
IDS-65			A	REL. PER ECN 14505	3/31/2025	SPS
SHEET 1 OF 3	DATE: 3/31/2025					
DRAWN: BAK	APPROVED: SPS					

Description: 65 Series, Size 5 PkZ® for ARINC 404/600 Connector Housings

MATERIALS	
<u>BODIES</u>	<u>INSULATORS</u>
Plug: Brass Per ASTM B16	Virgin Teflon (PTFE) Per ASTM D1710
Receptacle: Brass Per ASTM B16	<u>PLATING</u>
<u>CONTACTS</u>	Gold Per MIL-DTL-45204 (Electro Deposited)
Center Contact: Beryllium Copper Per ASTM B196	Copper Per SAE AMS 2418 (Electro Deposited)
Outer Contact: Beryllium Copper Per ASTM B196	Nickel Per QQ-N-290

FINISH (Ending Letter of Part Number)	MATING CHARACTERISTICS
A: .000050" Min. Gold Over Nickel	Bodies: 48 oz. (3.0 lbs.) Max. Insertion 2 oz. (0.125 lbs.) Min. Withdrawal
B: .000030" Min. Gold Over Nickel	
C: .000050" Min. Gold Over Copper	Contacts: 32 oz. (2.0 lbs.) Max. Insertion .5 oz. (0.031 lbs.) Min. Withdrawal
D: .000030" Min. Gold Over Copper	
Other Metal Parts: Plated to Meet The Environmental Requirements	Axial Mating: .110"
	Housing Retention: 192 oz. (12 lbs.) Min.

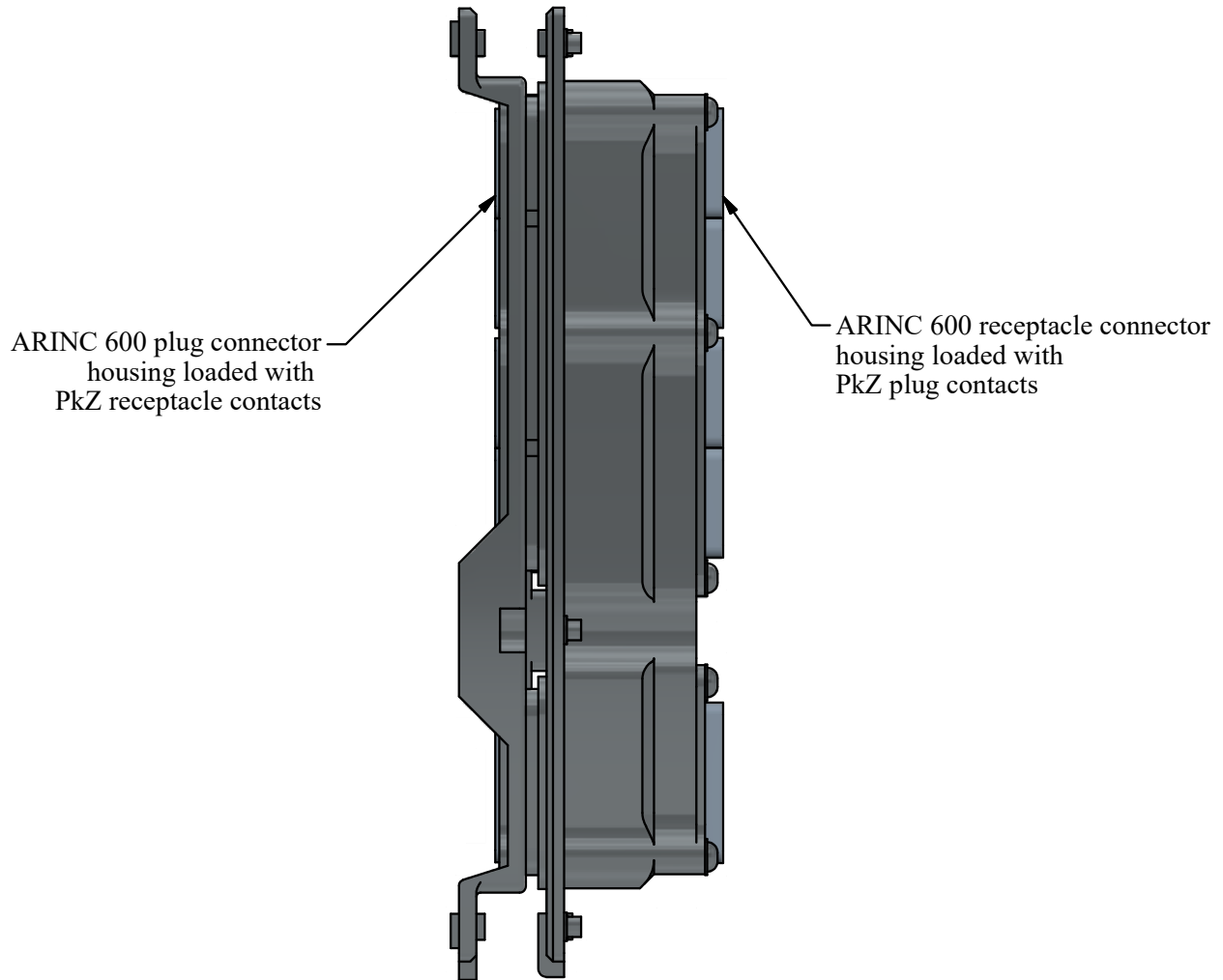
ELECTRICAL			
Frequency Range:	DC To 18 GHz	Contact Resistance:	Center Contact 5 Milliohms
Voltage Rating Straight:	1000 VRMS	Contact Resistance:	Outer Contact 3 Milliohms
Voltage Rating Angled:	800 VRMS	VSWR:	Configuration Dependent
Insulation Resistance:	2000 Megohms Min.	RF Leakage:	-90 dB Min. @ 2-3 GHz
Insertion Loss:	.06√f(GHz) dB		
Impedance:	50 Ohms		

ENVIRONMENTAL	
Operating Temperature:	-55°C To +200°C
Insulation Resistance:	2000 Megohms Post Humidity
Vibration:	MIL-STD-202, Method 204, Test Condition D
Shock:	MIL-STD-202, Method 213, Test Condition I
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B, Except High Temperature Shall Be +85°C
Durability:	500 Cycles
Moisture Resistance:	MIL-STD-202, Method 106
Salt Spray:	MIL-STD-1344, Method 1001, Condition B

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IDS-65		
SHEET 3 OF 3	DATE: 3/31/2025	
DRAWN: BAK	APPROVED: SPS	

CONTACT MATING IN CONNECTOR HOUSINGS:

HANDLE WITH CARE



CAUTION

- Precision contacts with small diameters are used in these connectors to achieve superior electrical and mechanical performance.
- Care is required when mating these connectors to protect the contacts from damage and achieve optimal performance.
- Stabilizing rings for PkZ plug contacts can be used to aid in the mating of the connectors.