

INTERFACE DESIGN STANDARD		<i>The PHOENIX Company of Chicago, Inc.</i> 22 GREAT HILL RD., NAUGATUCK, CT 06770 WWW.PHOENIXOFCHICAGO.COM PHONE: (800) 323-9562 FAX: (630) 206-1801	REV.	DESCRIPTION	DATE	APPR.
IDS-168			E	PER ECN 13488	09/1/2019	RMB
SHEET 1 OF 3			F	PER ECN 13509	04/07/2020	RMB
DATE: 8/12/15			G	PER ECN 13787	06/18/2020	RMB
DRAWN: JEM	APPROVED: RMB		H	PER ECN 14379	05/08/2024	SJG
			J	PER ECN 14215	11/26/2024	DW
			K	PER ECN 14555	9/18/2025	DW

Description: 168 Series, Size 12 PkZ® for ARINC 600 Connector

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: 24 oz. (1.5 lbs.) Max. Insertion
C: .000050" Min. Gold Over Copper	2 oz. (0.125 lbs.) Min. Withdrawal
Other Metal Parts: Plated to Meet The Environmental Requirements	Contacts: 14 oz. (0.875 lbs.) Max. Insertion
	.5 oz. (0.031 lbs.) Min. Withdrawal
	Axial Mating: .110"
	Housing Retention: 192 oz. (12 lbs.) Min.

ELECTRICAL			
Frequency Range:	DC To 50 GHz	Contact Resistance:	Center Contact 6 Milliohms
Voltage Rating Straight:	800 VRMS	Contact Resistance:	Outer Contact 4 Milliohms
Voltage Rating Angled:	600 VRMS	VSWR:	Configuration Dependent
Insulation Resistance:	2000 Megohms Min.	RF Leakage:	-90 dB Min. @ 2-3 GHz
Insertion Loss:	$.06\sqrt{f(\text{GHz})}$ dB		
Impedance:	50 Ohms		

ENVIRONMENTAL
Operating Temperature: -55°C To +125°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
Durability: 500 Cycles
Moisture Resistance: MIL-STD-202, Method 106
Salt Spray: MIL-STD-1344, Method 1001, Condition B

