

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	REV.	DESCRIPTION	DATE	APPR.
IDS-68			G	PER ECN 12844	04/12/18	JEM
SHEET 1 OF 1			H	PER ECN 13033	07/24/18	JEM
DATE: 06/29/99			I	PER ECN 13383	07/01/19	JEM
DRAWN: JEM	APPROVED: HN		J	PER ECN 13787	06/17/20	JEM
			K	PER ECN 14215	07/29/24	DW

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, ET. SEQ.) OR THE EXPORT ADMINISTRATION ACT OF 1979, AS AMENDED, TITLE 50, U.S.C., APP 2401 ET SEQ. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

Description: 68 Series, Size 8 PkZ®

MATERIALS

BODIES

Plug: Brass Per ASTM B16
Receptacle: Brass Per ASTM B16

CONTACTS

Male Contact: Beryllium Copper Per ASTM B196
Female Contacts: Beryllium Copper Per ASTM B196

INSULATORS

Teflon (PTFE) Per ASTM D1710

PLATING

Gold Per MIL-DTL-45204
Copper Per MIL-C-14550
Nickel Per QQ-N-290

CLIP RING

Beryllium Copper Per ASTM B197

O-RING (Opt.)

Environmental Silicone Rubber Per ZZ-R-765
EMI Spring Beryllium Copper Per ASTM B197

FINISH (Add Letter To End Of Part Number)

OPTIONS

“A”= .000050 Min. Gold Over Nickel
“B”= .000030 Min. Gold Over Nickel
“C”= .000050 Min. Gold Over Copper
“D”= .000030 Min. Gold Over Copper

MATING CHARACTERISTICS

Bodies: 48 oz. (3lbs Max.) Insertion
2 oz. (0.125lbs.) Min. Withdrawal

Contacts: 32 oz. (2lbs.) Max. Insertion
.5 oz. (0.032 lbs.) Min. Withdrawal

Axial Mating Tol.: .090"

Housing Retention: 192 oz. (12 lbs.) Min.

ELECTRICAL

Frequency Range:	DC To 12 GHz	Contact Resistance:	Center Contact 5 Milliohms
Voltage Rating Straight:	1000 VRMS	Contact Resistance:	Outer Contact 3 Milliohms
Voltage Rating Angled:	800 VRMS	VSWR:	
Insulation Resistance:	2000 Megohms Min.	Configuration	
Insertion Loss:	.06√f(GHz) dB	Dependant	
Current Rating:	5 AMPS		
Impedance:	50 Ohms		

ENVIRONMENTAL

Operating Temperature:	-55°C TO +165°C	Durability:	500 Cycles
Insulation Resistance:	2000 Megohms Post Humidity	Moisture Resistance:	MIL-STD-202, Method 106
Vibration:	MIL-STD-202, Method 204, Test Condition D	Corrosion:	N/A
Shock:	MIL-STD-202, Method 213, Test Condition I	Temperature Cycling:	N/A
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B, Except High Temperature Shall Be +85° C	High Temperature Test:	N/A
		Salt Spray:	MIL-STD-1344, Method 1001, Condition B