

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-28			D	PER ECN 13780	06/11/20	JEM
SHEET 1 OF 1	DATE: 03/19/97		C	PER ECN 13033	07/23/18	JEM
DRAWN: JEM	APPROVED: HN		B	PER ECN 12825	04/04/18	JEM
			A	PER ECN 5358	01/31/00	HN

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: 28 Series

**MATERIALS**

BODIES

Plug: Brass Per ASTM-B-16  
 Receptacle: Beryllium Copper Per ASTM-B-196

Clip Ring

Beryllium Copper Per ASTM-B-196

CONTACTS

Male Contact: Brass Per ASTM-B-16  
 Female Contacts: Beryllium Copper Per ASTM-B-196

INSULATORS

Teflon (PTFE) Per ASTM-D-1457

PLATING

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

**FINISH (Add Letter To End Of Part Number)**

OPTIONS

"A" = .000050 Min. Gold Over Nickel  
 "B" = .000030 Min. Gold Over Nickel

**MATING CHARACTERISTICS**

Bodies: 48 oz. (3 lbs.) Max. Insertion  
 2 oz. (0.125 lbs.) Min. Withdrawal  
 Contacts: 14 oz. (0.875 lbs.) Max. Insertion  
 .5 oz. (0.031 lbs.) Min. Withdrawal  
 Housing Retention: 192 oz. (12 lbs.) Min.

**ELECTRICAL**

Frequency Range: DC To 10 GHz.	Contact Resistance: Outer Contact: 3 Milliohms
Voltage Rating Straight: 1000 VRMS	Contact Resistance: Center Contact 10 Milliohms
Voltage Rating Angled: 800 VRMS	VSWR:
Insulation Resistance: 5000 Megohms Min.	1.35 Max. @ 10 GHz
Insertion Loss: .2 dB Max.	
Current Rating:	
Impedance: 50 Ohms	

**ENVIRONMENTAL**

Operating Temperature: -55°C to +165°C	Durability: 500 Cycles
Insulation Resistance: N/A	Moisture Resistance: N/A
Vibration: MIL-STD-202, Method 204, Test Condition 4	Corrosion: N/A
Shock: MIL-STD-1344, Method 2005, Test Condition E	Temperature Cycling: N/A
Thermal Shock: N/A	High Temperature Test: N/A
	Salt Spray: MIL-STD-1344, Method 1001, Condition B