

INTERFACE DESIGN STANDARD		The PHOENIX Company of Chicago, Inc. 22 GREAT HILL RD., NAUGATUCK, CT 06770 WWW.PHOENIXOFCHICAGO.COM PHONE: (800) 323-9562 FAX: (630) 206-1801	REV.	DESCRIPTION	DATE	APPR.
IDS-156D			A	RELEASED PER ECN 14550	8/27/2025	DRW
SHEET 1 OF 1	DATE: 08/22/25					
DRAWN: DRW	APPROVED: DRW					

Description: 156 Series PkZ ®, Size 16 for PRX, PX and custom housings

MATERIALS

<u>BODIES</u> Plug: Brass Per ASTM B16 Receptacle: Brass Per ASTM B16	<u>INSULATORS</u> Virgin Teflon (PTFE) Per ASTM D1710
<u>CONTACTS</u> Male Contact: Beryllium Copper Per ASTM B196 Or Brass Per ASTM B16 Female Contact: Beryllium Copper Per ASTM B196	<u>PLATING</u> Gold Per MIL-DTL-45204 (Electro Deposited) Copper Per SAE AMS 2418 (Electro Deposited) Nickel Per QQ-N-290
<u>SUPPORT BEAD</u> Delrin, Black	

FINISH (Ending Letter of Part Number)

A: .000050" Min. Gold Over Nickel	Bodies: 24 oz. (1.5 lbs.) Max. Insertion 2 oz. (0.125 lbs.) Min. Withdrawal
B: .000030" Min. Gold Over Nickel	
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: .050"
	Housing Retention: 160 oz. (10 lbs.) Min.

ELECTRICAL

Frequency Range: DC To 67 GHz	Contact Resistance: Center Contact 6 Milliohms
Voltage Rating Straight: 700 VRMS	Contact Resistance: Outer Contact 4 Milliohms
Voltage Rating Angled: 500 VRMS	VSWR: Configuration Dependent
Insulation Resistance: 2000 Megohms Min.	RF Leakage: -90 dB Min. @ 2-3 GHz
Insertion Loss: $.07\sqrt{f(\text{GHz})}$ dB	
Current Rating: 1.25 AMPS	
Impedance: 50 Ohms	

ENVIRONMENTAL

Operating Temperature: -40°C To +90°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	