

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-756			A	PER ECN 11964	08/25/14	JEM
SHEET 1 OF 1	DATE: 08/25/2014					
DRAWN: BDK	APPROVED: HN					

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Description: 756 Series

MATERIALS

BODIES

Plug: Brass Per ASTM-B-16
 Receptacle: Brass Per ASTM-B-16

CLIP RING

Beryllium Copper Per ASTM-B-196

CONTACTS

Male Contact: Beryllium Copper Per ASTM-B-196 Or *
 Female Contacts: Beryllium Copper Per ASTM-B-196

INSULATORS

Virgin Teflon (PTFE) Per ASTM-D-1710 Or #1 Vary Flex Type
 HV, Two-Part Epoxy

PLATING

Gold Per MIL -G-45204 * Brass Per ASTM-B-16
 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
 Other Metal Parts: Plated To Meet The Environmental Requirements

MATING CHARACTERISTICS

Bodies: 1.5 lbs Max. Insertion.
 2 oz. Min. Withdrawal
 Contacts: 14 oz. Max. Insertion.
 .5 oz. Min. Withdrawal
 Axial Mating Tol.: .070"
 Housing Retention: 12 lbs Min.

ELECTRICAL

Frequency Range: DC To 2 GHz
 Voltage Rating Straight: 800 VRMS
 Voltage Rating Angled: 600 VRMS
 Insulation Resistance: 2000 Megohms Min.
 Insertion Loss: $.06\sqrt{f(\text{GHz})}$ dB
 Current Rating: 1 AMPS
 Impedance: 75 Ohms
 Contact Resistance: Center Contact 6 Milliohms
 Contact Resistance: Outer Contact 4 Milliohms
 VSWR: Configuration Dependent
 R.F. Leakage: -90 dB Min. @ 2GHz

ENVIRONMENTAL

Operating Temperature: -65° C to +165° C
 Insulation Resistance: 2000 Megohms
 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
 Corrosion: N/A
 Temperature Cycling: N/A
 High Temperature Test: N/A
 Salt Spray: MIL-STD-1344, Method 1001, Condition B