

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-178			B	PER ECN 12816	03/27/18	JEM
SHEET 1 OF 1			C	PER ECN 13033	07/18/18	JEM
DATE: 03/19/15			D	PER ECN 13292	04/23/19	JEM
DRAWN: JEM	APPROVED: JEM		E	PER ECN 13787	06/22/20	JEM
			F	PER ECN 14215	07/26/24	DW

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178 Series, PkZ® Size 12

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

FINISH (Add Letter To End Of Part Number)

MATING CHARACTERISTICS

OPTIONS

Bodies And Contacts:
A: .000050 Min. Gold Over Nickel

Other Metal Parts: Plated To Meet The Environmental Requirements

Outer Bodies: 24 oz. (1.5 lbs.) Max. Insertion.
2 oz. (0.125 lbs.) Min. Withdrawal

Center Contacts: 14 oz. (0.875 lbs.) Max. Insertion.
.5 oz. (0.032 lbs.) Min. Withdrawal

Axial Mating Tol.: .070" (1.78 mm)

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

ELECTRICAL

Frequency Range:	DC To 40 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.		
Insertion Loss:	.06√f(GHz) dB		RG-316, RG-178, RG-405 Or Equivalent
Current Rating:	1.5 AMPS		
Impedance:	50 Ohms	R.F. Leakage:	-90 dB Min. @2-3 GHz

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