

PKZ[®] 27 SERIES SIZE 8 CONTACT

U.S. PATENT NO. 4,917,630

JAPANESE PATENT NO. 1769278

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

MECHANICAL

MATERIALS:

BODIES:

Plugs: Brass per ASTM B 16.

Receptacles: Brass per ASTM B 16.

Insulation: Teflon (PTFE) ASTM D 1457.

Retaining Ring: Beryllium Copper per ASTM B 196.

Contacts, Male: Beryllium Copper per ASTM B 196.

Contacts, Female: Beryllium Copper per ASTM B 196.

*Weather Seal Gasket: Silicone Rubber per ZZ-R-765.

*EMI Gasket: Beryllium Copper per ASTM B 194.

PLATING:

Gold per MIL-G-45204.

Copper per MIL-C-14550.

Nickel per QQ-N-290.

FINISH (Add letter to end of part number.)

BODIES AND CONTACTS**

"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

Outer Bodies: 3 lbs. Max. Insertion.

2 oz. Min. Withdrawal.

Center Contacts: 16 oz. Max. Insertion.

.5 oz. Min. Withdrawal.

Housing Retention: 12 lbs. Min.

Axial Mating Tolerance: .090

ELECTRICAL

Impedance: 50 Ohms.

Frequency Range: DC to 3 GHz.

Voltage Rating Straight: 1000 V RMS.

Voltage Rating Angled: 800 V RMS.

Current Rating: 5 Amps.

Insulation Resistance: 2000 Megohms Min.

Insertion Loss: $.06 \times \sqrt{f(\text{GHz})}$ dB.

Contact Resistance: Center Contact 5 Milliohms.

Contact Resistance: Outer Contact 3 Milliohms.

ENVIRONMENTAL

Operating Temperature Range:

-67° F to +257° F (-55° C to +125° C).

Vibration: MIL-STD-202, Method 204, Test Condition D.

Shock: MIL-STD-202, Method 213, Test Condition I.

Salt Spray: MIL-STD-1344, Method 1001, Condition B.

Durability: 500 Cycles.

Thermal Shock: MIL-STD-202, Method 107,

Test Condition B, except High Temp. shall be +185° F (+85° C).

Moisture Resistance: MIL-STD-202, Method 106

(No measurement at High Humidity. Insulation

Resistance 200 Megohms after Humidity.)

*See next page for ordering information.

** All other components plated to meet environmental requirements.



THE PHOENIX COMPANY
of CHICAGO, INC.

Dimensions are subject to change without notice.

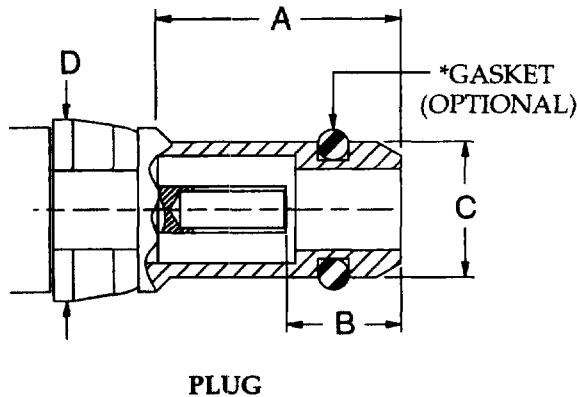
PALCO CONNECTOR

A subsidiary of The Phoenix Company

555 Pond Drive • Wood Dale, IL 60191-1192 • Toll Free (800)323-9562

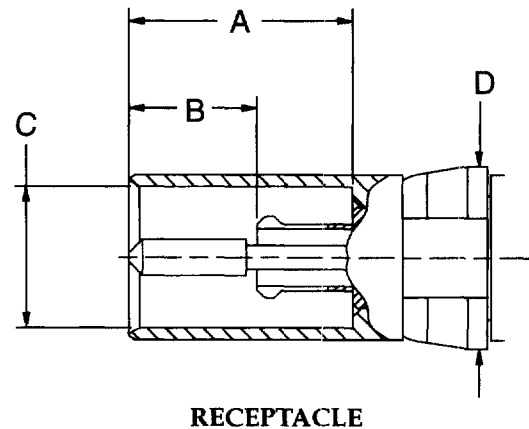
PKZ[®] 27 SERIES SIZE 8 CONTACT

INTERFACE DRAWINGS



	INCH	(MM)
A MIN	.250	(6.35)
B MIN	.129	(3.28)
C	Ø .153 .156	Ø (3.89) (3.96)
D	Ø.206	Ø(5.23)

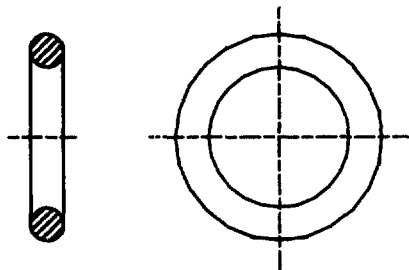
	INCH	(MM)
A MIN	.245	(6.22)
B	.145	(3.68)
C MIN	Ø.157	Ø(3.99)
D	Ø.206	Ø(5.23)



Consult Factory for Contact Part Number with selected gasket installed.

*GASKET

Weather Proof for PkZ[®] Size 8 Contact

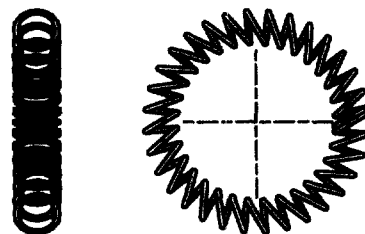


Individual Part Number: 00-60012

Material: Silicone Rubber Per ZZ-R-765

*GASKET

EMI for PkZ[®] Size 8 Contact



Individual Part Number: 00-60018

Material: Beryllium Copper per ASTM-B-194



THE PHOENIX COMPANY
of CHICAGO, INC.

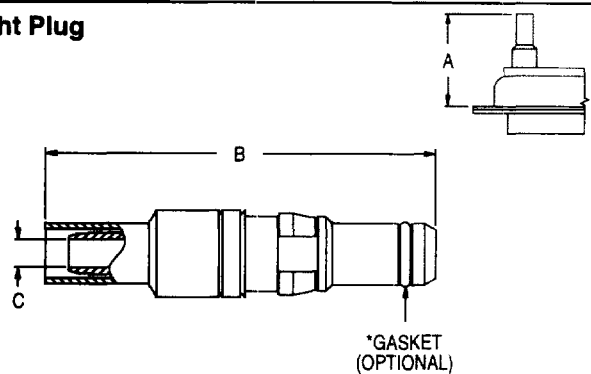
Dimensions are subject to change without notice.

PALCO CONNECTOR A subsidiary of The Phoenix Company
555 Pond Drive • Wood Dale, IL 60191-1192 • Toll Free (800)323-9562

PKZ® 27 SERIES – SIZE 8 CONTACT CRIMP

Part Number	A MAX.	B REF.	C DIA.	Cable
27-0080-0400*	.91 (23.11)	.97 (24.64)	.040 (1.02)	RG178,196
27-0080-0670*	.91 (23.11)	.97 (24.64)	.069 (1.75)	RG179,187, 188,316
27-0080-1080*	.91 (23.11)	.97 (24.64)	1.08 (2.74)	RG180,195
27-0080-2670*	.91 (23.11)	.97 (24.64)	.069 (1.75)	RG316 D.S. (M17/152)

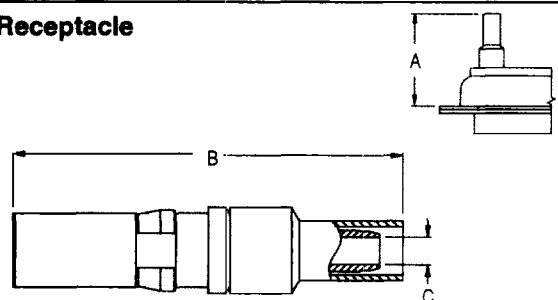
Straight Plug



Crimp

Part Number	A MAX.	B REF.	C DIA.	Cable
27-1080-0400*	.85 (21.59)	.98 (24.89)	.040 (1.02)	RG178,196
27-1080-0670*	.85 (21.59)	.98 (24.89)	.067 (1.70)	RG179,187, 188,316
27-1080-1080*	.85 (21.59)	.98 (24.89)	1.08 (2.74)	RG180,195
27-1080-2670*	.85 (21.59)	.98 (24.89)	.067 (1.70)	RG316 D.S. (M17/152)

Straight Receptacle



Crimp

*See Specification Page for finish suffix and gasket information.



THE PHOENIX COMPANY
of CHICAGO, INC.

Dimensions are subject to change without notice.

PALCO CONNECTOR

A subsidiary of The Phoenix Company

555 Pond Drive • Wood Dale, IL 60191-1192 • Toll Free (800)323-9562