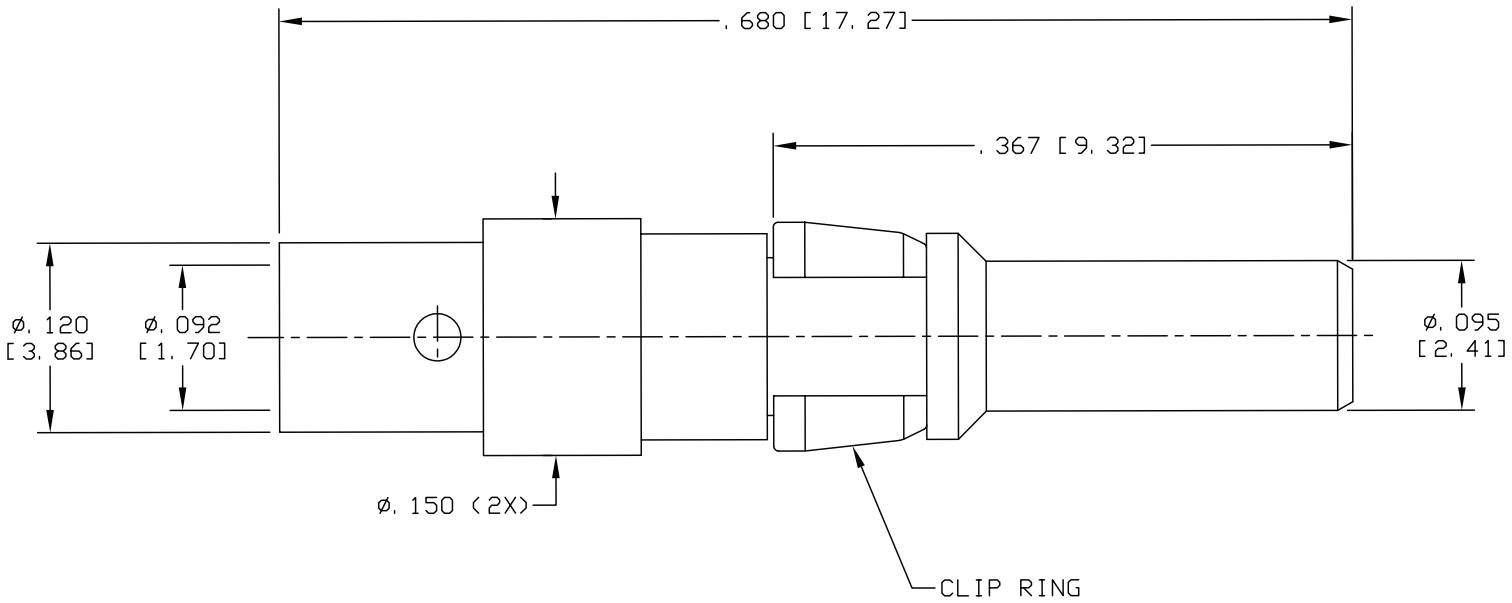
CAD DRAWING - NO MANUAL REVISIONS



Notes:
56-0202-0860B
1) Design and Interface per IDS 56A.
2) High Performance Blindmate RF/Microwave Contact for High Density Multiport RF Connectors.
3) Size 12 PkZ®, 50 Ohm, 40 GHz Straight Plug.
4) Direct Solder to RG-405 Cable (M17/133) .086 S.R.
5) Contact/Insulator, Sub-Assembly, and Spacer Supplied Loose.
6) .000030" Min. Gold Over Nickel.

REV.	DESCRIPTION	DATE	APPR.
C	PER ECN 11721	07/17/13	JEM
B	PER ECN 11646	04/19/13	JEM
A	PER ECN 11573	03/04/13	JEM
01	PROTOTYPE	10/24/12	JEM

PALCO CONNECTOR
22 GREAT HILL RD., NAUGATUCK, CT 06770
UNLESS OTHERWISE SPECIFIED, PALCO WORKMANSHIP STANDARDS APPLY
TOLERANCES ON: DECIMALS: XX ±.01 . XXX ±.005 ANGLES ±1/2° 32√
DIMENSIONS IN INCHES OR (METRIC) DO NOT SCALE PRINTS
CATALOG ITEM

DRAWN	CHECKED	ENGINEER	APPROVED	FSCM
JEM	JEM	JEM	JEM	58167

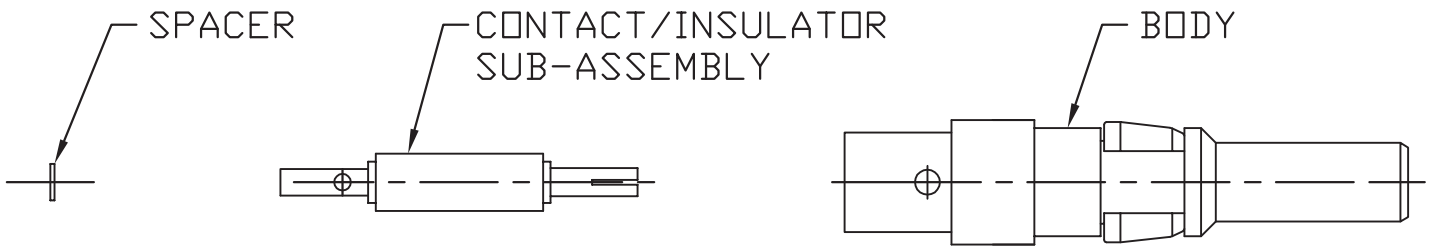
DESCRIPTION: SIZE 12 PkZ PLUG, DIRECT SOLDER

DATE	DRAWING NO.	PLATING OPT.
10/24/12	56-0202-0860	B

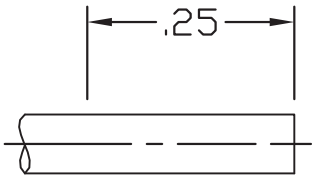
CABLE ASSEMBLY PROCEDURE	
P/N 56-0202-0860	
PAGE 1 OF 1	DATE: 03/04/13
DRAWN: JEM	APPROVED: JEM
FOR USE WITH RG-405 CABLE	

PALCO CONNECTOR
22 GREAT HILL ROAD, NAUGATUCK, CT. 06770
PHONE: (203) 729-9090 FAX: (203) 723-1794

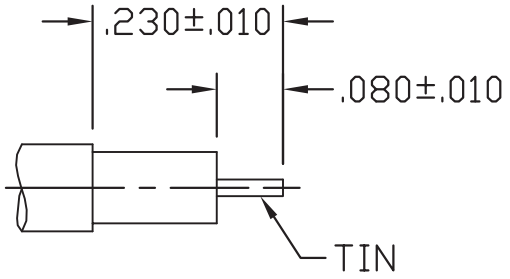
REV	DESCRIPTION	DATE	APPR
A	PER ECN 11573	03/04/13	JEM
B	PER ECN 11646	04/19/13	JEM
C	PER ECN 11721	07/17/13	JEM



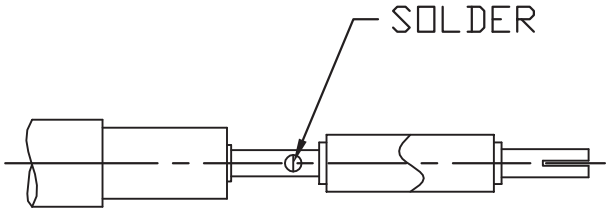
STEP 1
DIP END OF CABLE INTO FLUX AND THEN TIN DIP CABLE TO DIMENSIONS SHOWN USING KESTER 63/37 SOLDER AND SOLDER POT @ 500°F FOR SIX SECONDS MAX. (NOTE: FOR T-FLEX TYPE CABLES ONLY).



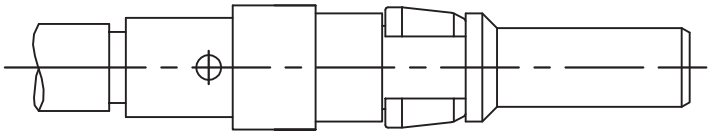
STEP 2
TRIM CABLE TO DIMENSIONS SHOWN. (.230±.010 FOR T-FLEX CABLES) TIN CENTER CONDUCTOR.



STEP 3
SLIDE SPACER AND CONTACT/INSULATOR SUB-ASSEMBLY ONTO CENTER CONDUCTOR AS SHOWN. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN SOLDER JOINT.



STEP 4
INSERT ABOVE CABLE INTO CONNECTOR BODY UNTIL CABLE BOTTOMS. SOLDER BODY TO CABLE. CLEAN SOLDER JOINT.



INTERFACE DESIGN STANDARD	
IDS-56A	
PAGE 1 OF 1	DATE: 09/16/97
DRAWN: JEM	APPROVED: HN

PALCO CONNECTOR
22 GREAT HILL ROAD, NAUGATUCK, CT. 06770
PHONE: (203) 729-9090 FAX: (203) 723-1794

REV	DESCRIPTION	DATE	APPR
B	PER ECN 5946	10/22/01	HN
C	PER ECN 7453	06/01/04	JEM
D	PER ECN 11477	10/18/12	JEM
E	PER ECN 11617	03/12/13	JEM

DESCRIPTION: 56 SERIES PkZ®, SIZE 12 MICROWAVE CONTACTS FOR HIGH DENSITY MULTIPORT RF CONNECTORS

U.S. PATENT No. 4,917,630 JAPANESE PATENT No. 1,769,278

MECHANICAL

MATERIALS
BODIES:
PLUG BODIES - BRASS PER ASTM B 16.
RECEPTACLE BODIES - BRASS PER ASTM B 16.

PLATING:
GOLD PER MIL-G-45204.
COPPER PER MIL-C-14550.
NICKEL PER QQ-N-290.

INSULATORS - VIRGIN TEFLON (PTFE) PER ASTM D 1710 OR #1 VARY FLEX TYPE HV, TWO-PART EPOXY.
RETAINING RING - BERYLLIUM COPPER PER ASTM B 196.
MALE CONTACT - BERYLLIUM COPPER PER ASTM B 196 or BRASS PER ASTM B 16.
FEMALE CONTACTS - BERYLLIUM COPPER PER ASTM B 196.

FINISHES (ADD LETTER TO END OF PART NUMBER)

BODIES AND CONTACTS -
"A" - .000050 MIN. GOLD OVER NICKEL.
"B" - .000030 MIN. GOLD OVER NICKEL.
OTHER METAL PARTS: PLATED TO MEET THE ENVIROMENTAL REQUIREMENTS.

MATING CHARACTERISTICS

OUTER BODIES	1.5 LBS MAX. INSERTION. 2 OZ. MIN. WITHDRAWAL.
CENTER CONTACTS	14 OZ. MAX. INSERTION. .5 OZ. MIN. WITHDRAWAL.
HOUSING RETENTION	12 LBS MIN.
AXIAL MATING TOLERANCE	.070

ELECTRICALS

FREQUENCY RANGE: DC TO 40 GHz.
VOLTAGE RATING STRAIGHT: 800 VRMS.
VOLTAGE RATING ANGLED: 600 VRMS.
CURRENT RATING: 1.5 AMPS.
INSULATION RESISTANCE: 2000 MEGOHMS MIN.
INSERTION LOSS: $.06\sqrt{f(GHz)}$ dB

CONTACT RESISTANCE: CENTER CONTACT 6 MILLIOHMS
CONTACT RESISTANCE: OUTER CONTACT 4 MILLIOHMS
VSWR: CONFIGURATION DEPENDENT.
R.F. LEAKAGE: -90 dB MIN. @ 2-3 GHz.

ENVIRONMENTAL

OPERATING TEMPERATURE: -65°C to +165°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 TEMPERATURE SHALL BE +85°C.
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106.
INSULATION RESISTANCE: 2000 MEGOHMS AFTER HUMIDITY.