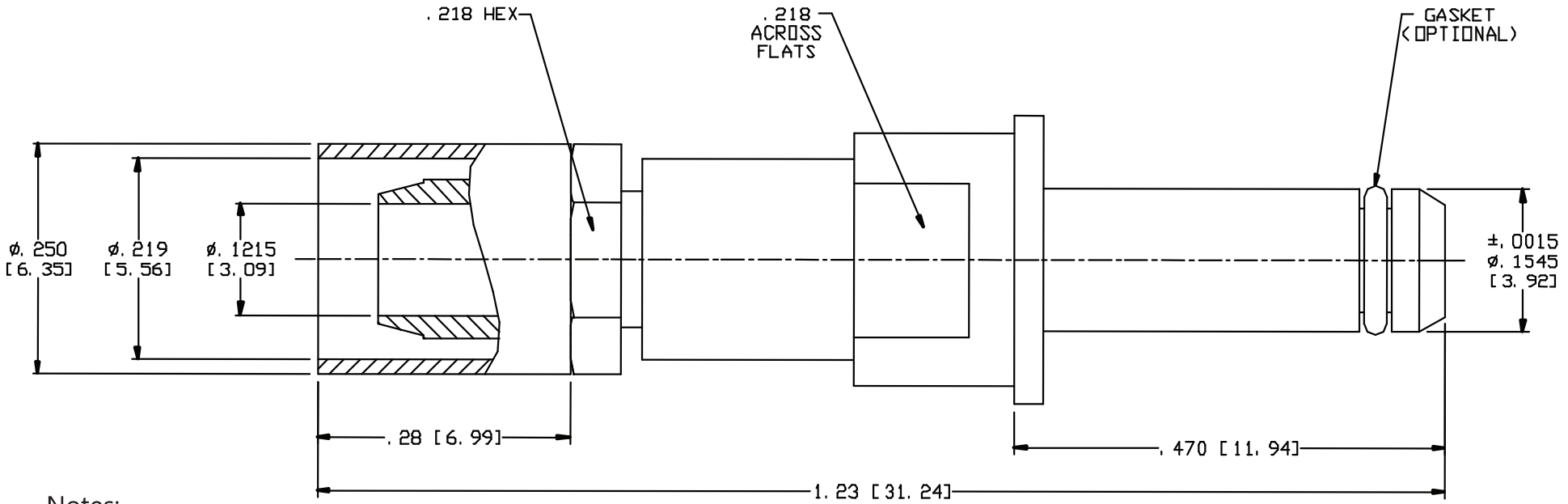
CAD DRAWING – NO MANUAL REVISIONS



Notes:

68-0080-1201C

1) Design and Interface per IDS 68.
2) Blindmate RF/Microwave Contact for ARINC 600 Connectors.
3) Size 8 PkZ®, 50 Ohm, 32 GHz Straight Plug, Without Gasket.
4) Crimp to RG-142 and RG-223 Cables.
5) Crimp Using .213 Hex Die (M22520/5-05).
6) For Use in ARINC 600 Connectors Per MIL-DTL-83527/3 and Insert Per MIL-STD-1842, II-2074 or II-2076.
7) Insertion and Withdrawal Tool T0617 Required to Insert and Remove Contacts from Housing.
8) Crimp Nut and Ferrule Shipped Loose.
9) .000050" Min. Gold Over Copper.

REV.	DESCRIPTION	DATE	APPR.
D	PER ECN 11074	08/12/11	JEM
C	PER ECN 4037	08/29/97	HN
B	PER ECN 3968	07/08/97	HN
A	REL. ECN 3958	06/27/97	HN

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

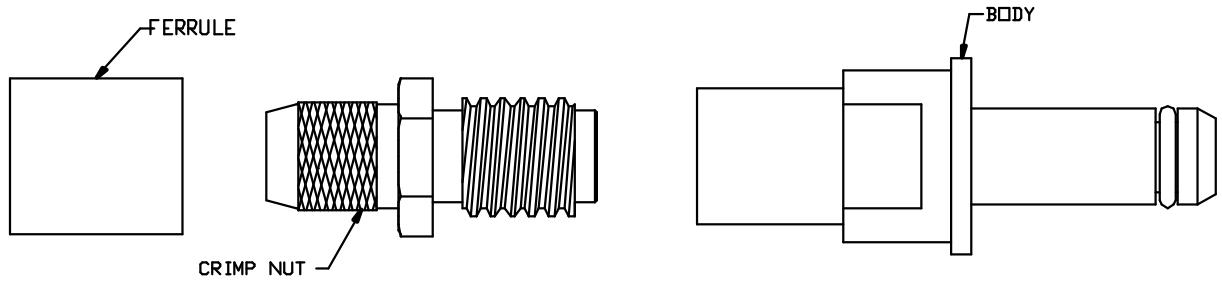
EPR B670; NORTHROP GRUMMAN

DRAWN	CHECKED	ENGINEER	APPROVED	FSCM
JEM	HN	JEM	HN	58167

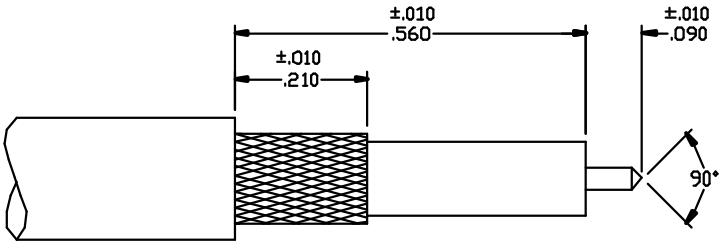
DESCRIPTION: PKZ STRAIGHT PLUG FOR ARINC (CRIMP TYPE)

DATE	DRAWING NO.	PLATING OPT.
06/27/97	68-0080-1201	C

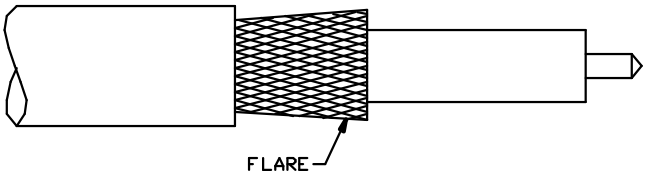
CABLE ASSEMBLY PROCEDURE		PALCO CONNECTOR 22 GREAT HILL ROAD, NAUGATUCK, CT. 06770 PHONE: (203) 729-9090 FAX: (203) 723-1794	REV	DESCRIPTION	DATE	APPR
P/N 68-008X-1201			A	REL. ECN 3958	06/30/97	HN
PAGE 1 OF 1	DATE: 06/30/97		B	PER ECN 3968	07/08/97	HN
DRAWN: JEM	APPROVED: HN		C	PER ECN 4037	08/29/97	HN
FOR USE WITH RG-142 CABLE			D	PER ECN 11074	08/12/11	JEM



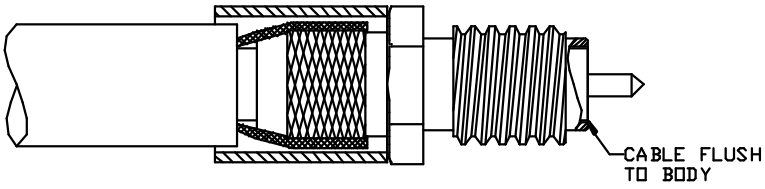
STEP 1
STRIP CABLE TO DIMENSION SHOWN, AND POINT CENTER CONDUCTOR.



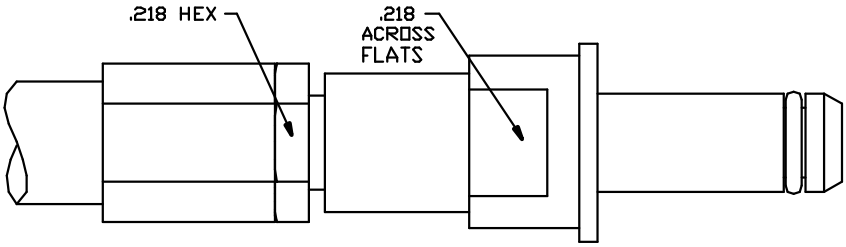
STEP 2
SLIDE FERRULE OVER CABLE, FLARE BRAID BY ROTATING DIELECTRIC.



STEP 3
SLIDE CRIMP NUT ONTO CABLE AND UNDER BRAID, BE SURE DIELECTRIC IS FLUSH TO BODY. SLIDE FERRULE UP TO CRIMP NUT SHOULDER AND CRIMP USING .213 HEX DIE (M22520/5-05).



STEP 4
THREAD CONNECTOR BODY ONTO CRIMP NUT ASSEMBLY, TIGHTEN TO 7 IN-LBS.



INTERFACE DESIGN STANDARD	
IDS-68	
PAGE 1 OF 1	DATE: 06/29/99
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 9588	10/27/08	HN
C	PER ECN 9935	05/22/09	JEM
D	PER ECN 10145	01/20/10	JEM
E	PER ECN 11479	10/19/12	JEM

DESCRIPTION: 68 SERIES PkZ®, SIZE 8 MICROWAVE CONTACTS FOR ARINC 600 CONNECTORS

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 - TEFLON (PTFE) PER ASTM D 1457.
RETAINING RING - BERYLLIUM COPPER PER ASTM B 196.
MALE CONTACT - BERYLLIUM COPPER PER ASTM B 197.
FEMALE CONTACTS - BERYLLIUM COPPER PER ASTM B 197.
WEATHER SEAL GASKET (OPTIONAL) - SILICONE RUBBER PER ZZ-R-765.
EMI GASKET - BERYLLIUM COPPER ASTM B 196.

FINISHES (ADD LETTER TO END OF PART NUMBER)

"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	32 OZ. MAX. INSERTION. .5 OZ. MIN. WITHDRAWAL.
HOUSING RETENTION	12 LBS. MIN.
AXIAL MATING TOLERANCE	.090

ELECTRICALS

FREQUENCY RANGE: DC TO 32 GHz.
VOLTAGE RATING STRAIGHT: 1000 VRMS.
VOLTAGE RATING ANGLED: 800 VRMS.
CURRENT RATING: 5 AMPS.
INSULATION RESISTANCE: 2000 MEGOHMS MIN.
INSERTION LOSS: $.06\sqrt{f(GHz)}$ dB

CONTACT RESISTANCE: CENTER CONTACT 5 MILLIOHMS
CONTACT RESISTANCE: OUTER CONTACT 3 MILLIOHMS
VSWR: 1.08 + .009(f) GHz., RG-402 CABLE.
1.15 + .02 (F) GHz., RG-174 & RG-316 CABLES.
1.15 + .01 (f) GHz., RG-142, 223, 303 & 400 CABLES.

ENVIRONMENTAL

OPERATING TEMPERATURE: -55°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. NO MEASUREMENT AT HIGH HUMIDITY. INSULATION RESISTANCE 2000 MEGOHMS AFTER HUMIDITY.