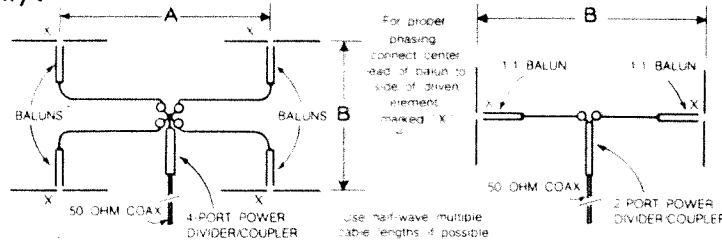


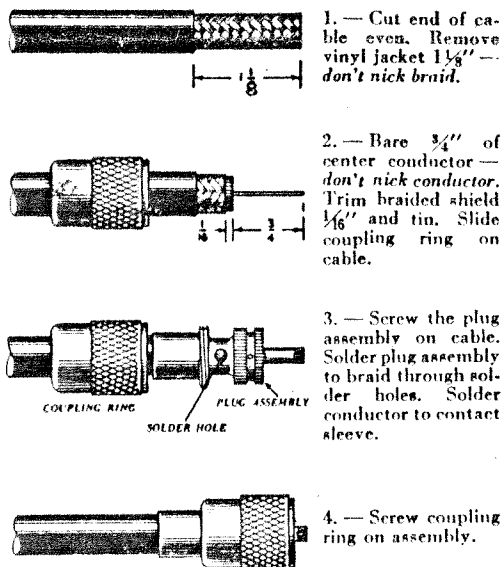
Your KLM balun has been fully tested, both electrically and physically, before leaving the factory. To maximize the performance and efficiency of your balun, please note the following recommendations.

1. Keep the lead lengths from balun to feedpoints as short as possible. Unnecessary length can upset VSWR, bandwidth, etc. Solder lugs are a good idea too.
2. Be sure studs on HF balun are at least 3/8" from other antenna hardware.
3. When stacking two or more antennas, use balun stud identified with black dot (on hot side on HF or center lead (VHF/UHF) as key for proper phasing (see sketch below).

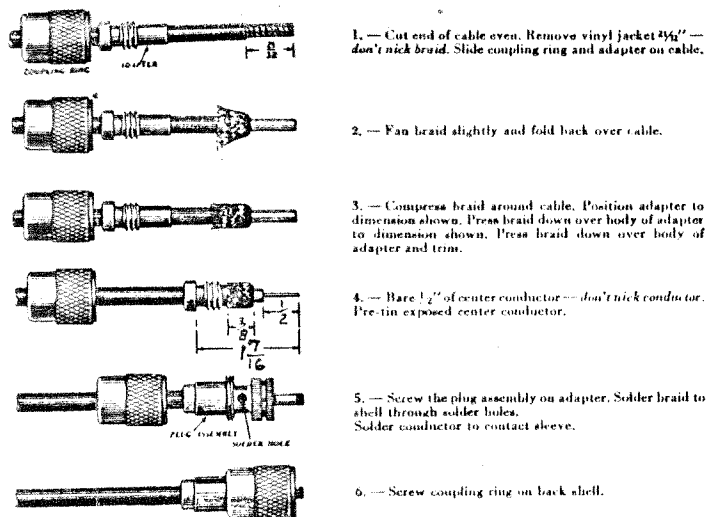


4. KLM HF/VHF BALUNS ARE NORMALLY SUPPLIED WITH SO-239 TYPE CONNECTORS. USE ONLY PL-259 CONNECTORS WITH THEM. ASSEMBLY OF PL-259 CONNECTORS (FOR TWO TYPES OF COAX) ARE SHOWN BELOW.

83-1SP (PL-259) Plug



83-1SP (PL-259) Plug with Adapters



IMPORTANT NOTE: IF YOUR BALUN IS SUPPLIED WITH TYPE "N" CONNECTORS (HF/VHF OPTION - UHF STANDARD), PLEASE READ ON

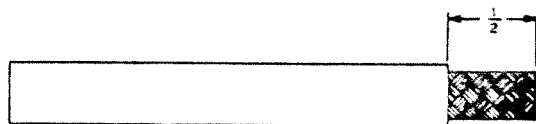
Type "N" connectors are noted for their low loss and good weather seal characteristics, but they must be carefully mated and only to other cleaned and carefully assembled type "N" connectors.

KLM's 90 day materials and workmanship warranty does not cover type "N" center pins bent or broken during installation or field use, so please read the following application notes carefully. (See back page)

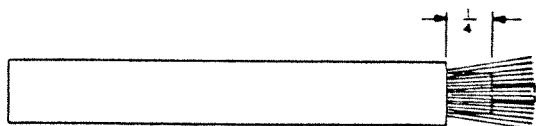
1. Use only type "N" connectors with your balun. Do not use PL-259 (S0235) type connectors. They will ruin it.
2. Carefully mate Type "N" connectors straight on. Jamming them together at angles will damage or break the center pins.
3. Carefully assemble your own type "N" connectors. See below for step-by-step details.



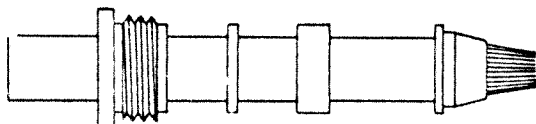
CUT END OF CABLE EVEN.



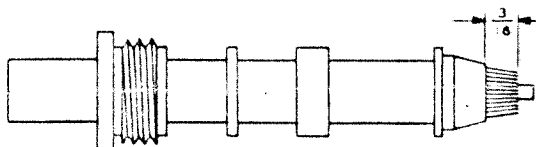
REMOVE VINYL JACKET $\frac{1}{2}$ INCH —
DON'T NICK BRAID.



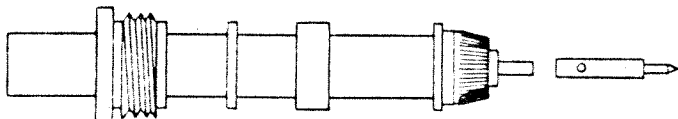
COMB OUT COPPER BRAID AS SHOWN.
BARE $\frac{1}{4}$ INCH OF CENTER CONDUCTOR—
DON'T NICK CONDUCTOR.



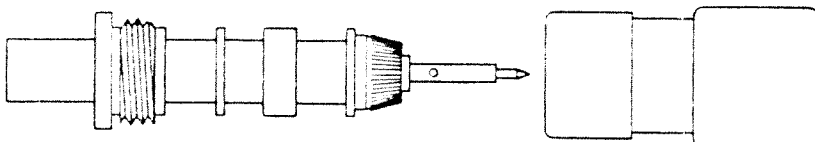
TAPER BRAID AS SHOWN. SLIDE NUT,
WASHER AND GASKET ON VINYL JACKET.
SLIDE CLAMP ON BRAID.



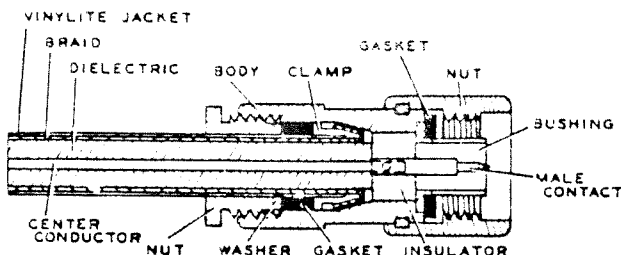
WITH CLAMP IN PLACE, TRIM BRAID
AS SHOWN.



FOLD COPPER BRAID BACK ON CLAMP
TIN CENTER CONDUCTOR,
USING MINIMUM AMOUNT OF
HEAT.



HOLDING CONTACT WITH PLIERS,
SOFT SOLDER CONTACT TO
CENTER CONDUCTOR. IT IS
IMPERATIVE THAT BACK END
OF CONTACT BE FLUSH WITH
POLYETHYLENE DIELECTRIC. DO
NOT USE EXCESS SOLDER WIPE
CLEAN—SEE THAT END OF
CABLE INSULATOR IS CLEAN
AND FREE OF SOLDER, ROSIN
AND FOREIGN MATERIAL.



SLIDE BODY INTO PLACE CAREFULLY SO
THAT CENTER CONDUCTOR ENTERS HOLE
IN INSULATOR. FACE OF CABLE DIE-
LECTRIC MUST FIT FLUSH AGAINST IN-
SULATOR. PROPERLY TIGHTEN BODY
AND NUT WITH WRENCHES

NOTES: 1. THIS ASSEMBLY PROCEDURE APPLIES
TO TYPE "N" PLUGS. THE PROCEDURE
FOR JACKS IS THE SAME EXCEPT
FOR THE USE OF A FEMALE CONTACT
AND A JACK BODY.