



PARTS LIST

KEY	NAME OF PART	PART NUMBER
14	OUTER CONDUCTOR	0874-0603
12	INNER CONDUCTOR	0874-0612
11	INSULATING BEAD	0874-0700
1	CABLE GUARD	0874-7641
5	RETAINING RING	0874-0810
2	COUPLING NUT	0874-0623
4	OUTER TRANSITION PIECE	0874-6252
9	INNER TRANSITION PIECE	0874-6279
8	DISK	0874-7590
3	FERRULE (Perforated-Green)	5240-4024
3	FERRULE (Perforated)	5240-4023

Type 874-C58A CABLE CONNECTOR 50 OHMS

APPLICABLE CABLE TYPES: General Radio 874-A3, RG-29/U, -55/U(series), -58/U(series), -141A/U, -142A/U, -159/U, -223/U.

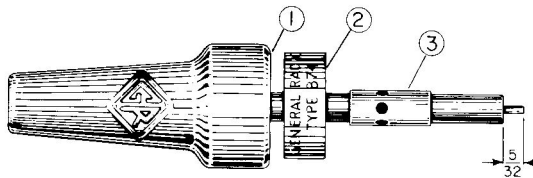
FORM 0874-0393-A, MAY 1962

SPECIFICATIONS

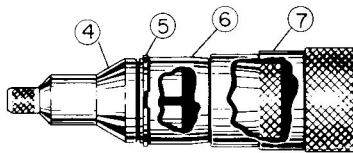
- FREQ RANGE: Dc to 7 Gc • MAX POWER: 100 w avg @ 1 Gc
 - MAX VOLTAGE: 500 v (peak) • CHAR IMPEDANCE: 50 ohms
- (U. S. Patent No. 2,548,457)

GENERAL RADIO COMPANY
WEST CONCORD, MASSACHUSETTS, U.S.A.

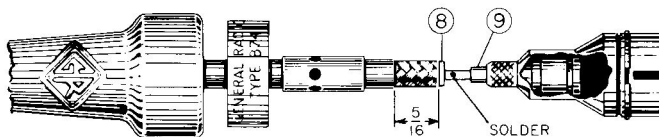
ASSEMBLY



- Slide cable guard (1) on cable, small end first; use talc if necessary.
- Slip coupling nut (2) on cable, shoulder end first.
- Slide ferrule (3) on cable, perforated end first.
NOTE Green ferrule used for single-braid cable and plain ferrule for double-braid cable.
- Carefully cut away cable jacket, braid, and dielectric to dimension shown. Do not sever any strands of center conductor.
- Examine cut face of dielectric and remove any stray braid strands.



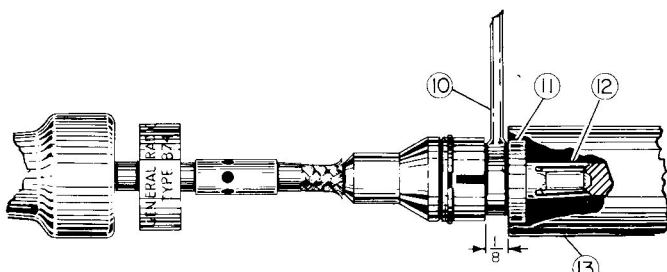
- Install front-ring expander (6) (red) over large end of outer transition piece (4).
- Slide phosphor-bronze retaining ring (5) on expander and push into first groove with ring pusher (7). Remove tools.



- Slide white Teflon heat-insulator disk (8) over cable center conductor and push back flush with dielectric, taking care not to unravel center conductor.
- Install inner transition piece (9) through large end of outer transition piece so that small end protrudes through knurled end of outer transition.
- Push center conductor into inner transition piece until disk touches transition, and solder. Scrape off excess solder.

CAUTION Excessive heat will melt cable dielectric and affect VSWR characteristics.

- Remove cable jacket to 5/16 inch and flare end of braid slightly.



- Push small end of outer transition piece over dielectric, so that knurl slides under braid and jacket.
- Force cable through outer transition piece until hexagonal end of inner transition piece protrudes about 1/8 inch.
- Grip hexagonal end of inner transition with 1/4 inch open-end wrench (10) and hold stationary.
- Insert inner conductor (12) in insulating bead (11) and thread into inner transition piece.
- Insert inner conductor in slot of inner conductor wrench (13), so that slot in bead engages key in wrench, and tighten. Apply 4 to 10 inch-pounds torque.

NOTE: These instructions assume the user to have the full set of Type 874 tools (see over). While not indispensable, the tools assure ease of assembly, uniformity, and good appearance, as well as optimum electrical and mechanical characteristics. Ordinary pliers and wrenches may be substituted.