

## JAN-C-17A

E-50. INDIVIDUAL CABLE SPECIFICATION SHEET FOR TYPE  
RG-83/U CABLE, DATED 25 JULY 1946

## CONSTRUCTION

*Inner conductor (see par. D-3).*—No. 10 AWG soft copper wire. Nominal diameter, 0.102 inch.

*Cable core (see par. D-4).*—Solid, type A. Diameter,  $0.240 \pm 0.005$  inch. Note: Type A is polyethylene.

*Outer conductor (see par. D-5).*—Single braid. Diameter,  $0.275 \pm 0.005$  inch.

Braid.....	Plain soft copper.
Wire.....	No. 33 AWG.
Carriers.....	24.
Ends.....	7.
Picks/inch.....	$8.0 \pm 10$ percent.

*Jacket (see par. D-6).*—Type I synthetic resin. Diameter,  $0.405 \pm 0.005$  inch. Minimum wall thickness, 0.050 inch. Note: Type I is PVC.

## TEST REQUIREMENTS

*Flow (see par. F-7).*—6 pounds.

*Dielectric strength (see par. F-13).*—8,000 volts r.m.s.

*Corona (see par. F-13).*—2,300 volts r.m.s.

*Attenuation (see par. F-17).*—9.0 db/100 ft. at 400 mc (estimated maximum).

*Impedance (see par. F-20).*—33.5 to 36.5 ohms (estimated).

## ENGINEERING DATA

*Nominal capacitance.*—44 mmf/ft. (estimated). Note: mmf/ft = pF/ft

*Nominal impedance.*—35 ohms.

*Maximum operating voltage.*—2,000 r.m.s.

*Nominal attenuation.*—(estimated).

3 db/100 ft. at 100 mc.

4.5 db/100 ft. at 300 mc.

25 db/100 ft at 3,000 mc.

[JAN-C-17A]

(no. 61)

Note: Although not specified, the Velocity of Propagation is 66%, based upon the stated values of nominal capacitance and nominal impedance.  $V_p = 101600 / (44 \times 35)$