

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

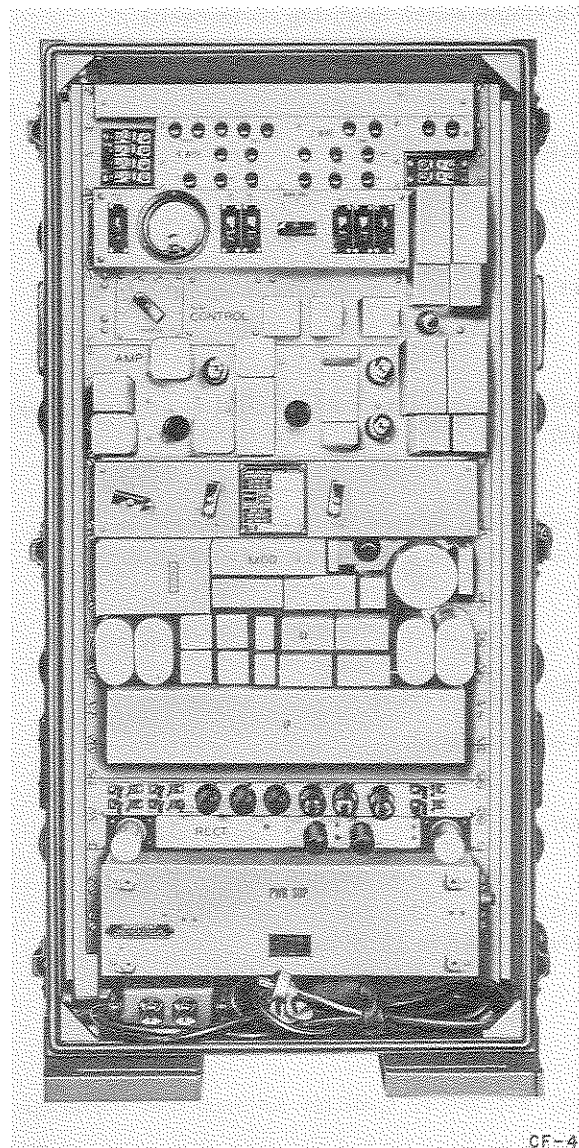
DATE OF THIS SHEET: 29 Dec 51

AN/TCC-TYPE

SERVICE TYPE NUMBER:

CF-4

CONVERTER



Converter CF-4 is carrier-converter equipment, designed to be used at junctions of open wire and Telephone Terminal CF-1, or spiral-four cable, to change four-wire operation from the terminal (or the cable) to effective two-wire operation over the open wire pair. It is used in systems serving corps or higher headquarters.

This equipment consists of a single bay, or cabinet of apparatus which provides equivalent four-wire operation in direction B-A by maintaining the frequency of that channel in the 0.2 to 11.6 kc band, and by raising transmission in the A-B direction to the 20.85 to 32.25 kc band.

It is the primary operating component of Converter Set TC-33 and can be used at either terminal A or B, in systems using Repeater CF-5 at intermediate points to extend the operating range of an open wire system. It can also be used in conjunction with Repeater CF-3 at junctions between four-wire and two-wire facilities.

It operates from 115/230-v ac, or a 12-v storage battery.

AN/TCC-TYPE		INSTRUCTION LITERATURE: TM 11-2008, TM 11-4404
CF-4 :SERVICE TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
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MAJOR COMPONENTS

QUANT NAME OF COMPONENT DIMENSIONS (IN) INSTALLED WEIGHT (LBS)

(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: At corps, army, or higher headquarters.

INSTALLATION: At four-wire, two-wire junction points of a tactical open wire or spiral-four cable system.

MAXIMUM SYSTEM LENGTH: Six-db repeatered circuits on spiral-four cable (aerial or on the ground) 150 miles, (buried):- 400 miles.

CAN COMMUNICATE WITH: Repeater, terminal, central office, related station equipment, and subsidiary apparatus which operates in the same connecting facility.

TECHNICAL CHARACTERISTICS

FACILITIES REQUIRED FOR TRANSMISSION: Open wire or equal.

FACILITIES AFFORDED: Equivalent four-wire operation.

FREQUENCY: B-A direction (as converter B in a system) 0.2 to 11.6 kc.
A-B direction (as converter A in a system) 20.85 to 32.25 kc.

TYPE OF MODULATION: Am.

POWER REQUIREMENTS: 30 w, 115/230 v, 50/60 cyc, ac; and 12 v, dc (at 3.5 amp) from a storage battery.

PHYSICAL CHARACTERISTICS

Converter CF-4 measures 49-1/2 x 24 x 17 inches, net weight 280 pounds, volume 11.6 cu ft.