

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

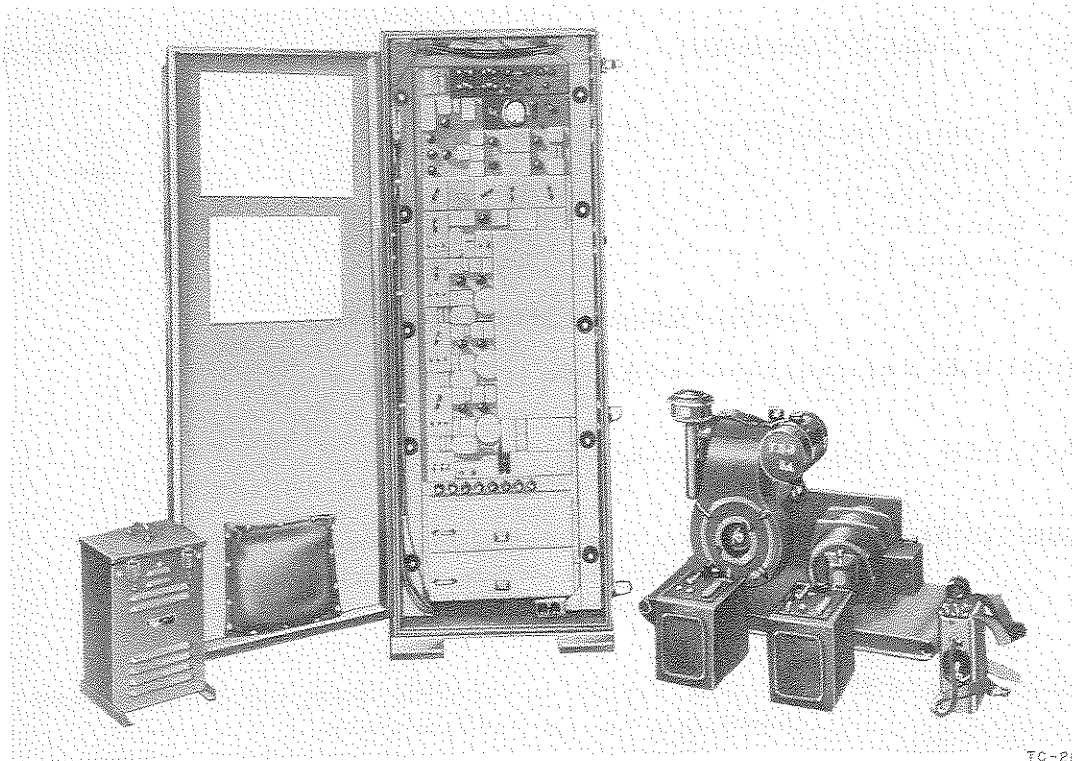
DATE OF THIS SHEET: 4 Jan 52

AN/TCC-TYPE

SERVICE TYPE NUMBER:

TC-21

TELEPHONE TERMINAL SET



Telephone Terminal Set TC-21 is a carrier telephone terminal equipment which provides four v-f channels over a 100-mile spiral-four system, an open wire pair, or a combination of these facilities, for telephone and teletypewriter communication in long-range tactical carrier communication applications.

This equipment consists essentially of Telephone Terminal CF-1 (Carrier), plus rectifier and power unit components and related accessories.

It is usually installed at the terminal of a system in which Repeater Set TC-23 is used at intermediate points to extend the operating range. Also operated in conjunction with Repeater Sets TC-33 and TC-37 in open wire systems. Can also be used in a system in which one channel is transmitted over a radio link.

Operates from 115/230 v ac or, in emergencies, from a 12-v storage battery.

AN/TCC-TYPE

INSTRUCTION LITERATURE: TM 11-341

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MAJOR COMPONENTS

| QUANT | NAME OF COMPONENT | DIMENSIONS (IN) INSTALLED | WEIGHT (LBS) |
|-------|-------------------------------------|---------------------------|--------------|
| 1 | Telephone Terminal CF-1-A or CF-1-B | 66 x 28 x 19 | 475 |
| 2 | Power Unit PE-75 | 36 x 19 x 26 | 660 |
| 1 | Rectifier RA-83 | 14 x 10 x 16 | 57 |
| 2 | Battery BB-55 | 26 x 14 x 19 | 110 |
| 1 | Telephone EE-8 | 7 x 16 x 7 | 10 |

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Division or higher headquarters.

INSTALLATION: Ground, fixed or vehicular.

MAXIMUM SYSTEM LENGTH: Is used in 100-mile spiral-four system. Depends on type of system, allowable net loss, wire facilities available, and number of repeaters.

CAN COMMUNICATE WITH: Repeater, terminal, central office, carrier, and station equipment operating in the same facility or system.

TECHNICAL CHARACTERISTICS

FACILITIES REQUIRED FOR TRANSMISSION: Open wire or spiral-four cable.

FACILITIES AFFORDED: Two-wire or four-wire; four channels (one vf, three carrier); bandwidth, 2,600 cps per channel. Talking and monitoring facilities provided.

FREQUENCY: 200 to 12,000 cps.

TYPE OF MODULATION: Am.

TYPE RINGING: Vf (Ringing Equipment EE-101-A required at each terminal).

POWER REQUIREMENTS: 115/230 v ac, 50/60 cyc, or a 12-v storage battery (emergency operation).

PHYSICAL CHARACTERISTICS

Telephone Terminal Set TC-21 weighs 1,312 pounds net. Volume 46.7 cu ft.