

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

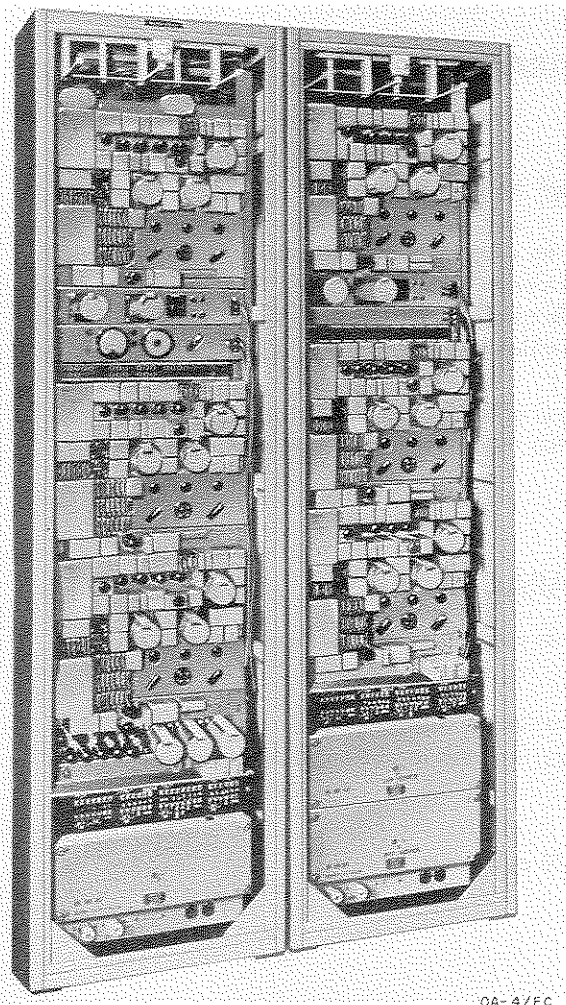
DATE OF THIS SHEET: 29 Dec 51

**AN/FGC-TYPE**

AN/COMP TYPE NUMBER:

OA-4/FC

CARRIER TERMINAL



OA-4/FC

Carrier Terminal OA-4/FC is a six-channel carrier equipment which operates on a four-wire basis, to provide 12 two-way telegraph circuits over type C or type H carrier facilities, and is used in long distance teletypewriter communication applications at fixed plant installations at army and higher headquarters.

This equipment consists of two cabinet-inclosed units or bays. Each bay provides three-channel terminations (numbered one through six). It is intended to be used with Carrier Terminal OA-5/FC to provide 12 channels of telegraph communication over a single normal telephone channel.

Used separately, or with Carrier Terminal OA-5/FC, it can be operated over channel two of a three-channel carrier telephone system derived through Carrier Terminal OA-11/FC or OA-12/FC, or on the voice-frequency, or the carrier channel of Carrier Terminal OA-13/FC.

Requires 700-w of 115 / 230-v 50/60 cyc, ac.

<b>AN/FGC-TYPE</b>		INSTRUCTION LITERATURE: TM 11-2024; TM 11-2029
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Cabinet No. 1, Channels 1, 2, 3	84 x 22-1/4 x 17	600
1	Cabinet No. 2, Channels 4, 5, 6	84 x 22-1/4 x 17	600

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Army or higher headquarters.

**INSTALLATION:** In fixed plant telephone and telegraph terminals.

**MAXIMUM SYSTEM LENGTH:** Type H (normally used as single-section systems); 145 miles over 104 copper-steel wire circuits at 6-db net loss. Type C, 1,000 miles or more, circuits of 6-db net loss. Repeater spacings on 104 copper-steel wire of about 155 miles or more.

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

**TECHNICAL CHARACTERISTICS**

**FACILITIES REQUIRED FOR TRANSMISSION:** Wire or cable having a maximum loss of -30 dbm.

**FACILITIES AFFORDED:** Six-channel, two-way operation on a 4-wire basis; separate sending and receiving paths using the same frequency for each direction of transmission; with monitoring of local side of all channels.

**FREQUENCY:** 425 - 1,275 cps; 6 channels spaced 170 cps apart.

**TYPE OF MODULATION:** Am.

**TYPE RINGING:** V<sub>f</sub>.

**POWER REQUIREMENTS:** 700 w of 115 / 230 v, 50/60 cyc, ac.

**PHYSICAL CHARACTERISTICS**

Carrier Terminal OA-4/FC measures 84 x 44-1/2 x 17 inches, net weight 1,200 pounds, volume 36.7 cu ft, 0.917 ship ton.