

# Marconi 1+6 Carrier Multiplex Equipment Type H 7027

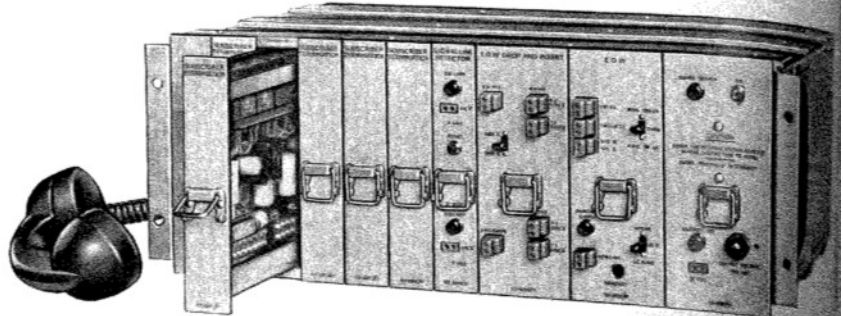
The H 7027 equipment is a compact self-contained audio plus six-circuit carrier telephone terminal for use with a junction radio link.

Each terminal comprises channel translating equipment, combining equipment, oscillators for the frequencies used in the modulation process, and signalling.

An out-of-band signalling tone is associated with each carrier-derived speech channel and with the audio channel.

The signalling equipment is suitable for manual working and for transmitting dialling pulses.

An auxiliary shelf can be provided containing relay sets for ring-down working, E.O.W facilities, etc.



Ancillary Equipment Shelf

## FEATURES

- Fully transistorized.
- Compact and easy to install.
- Low power consumption.
- Easy access for maintenance.
- Built-in signalling compatible with various forms of local ringing.
- Auxiliary unit for automatic working with most forms of exchange and subscriber apparatus.

## Circuit

Channel inputs are separately modulated forming a sub-group of six channels in the band 12 to 36 kHz. These are combined with the audio channel and the out-of-band signalling tones which are allocated frequencies in the band between the audio channel and the translated channels.

## DATA SUMMARY

**Effective channel bandwidth:** 300-3400 Hz.

**Line frequency:** 0.3 to 36 kHz.

**Send level:** -5 to -42 dBm.

**Receive level:** -5 to 0 dB.

**Carrier leak:** Better than -26 dBm0.

**Audio input level:**

4 W transmit -14 to 0 dBm.

2 W transmit -10.5 to 3.5 dBm.

**Audio output level:**

4 W receive -4 to +3 dB.

2 W receive -7.5 to -0.5 dB.

**Attenuation/frequency distortion:**

$\frac{1}{2}$  CCITT limits.

**Harmonic content (800 Hz tone):** Less than 5%.

**Intelligible cross-talk:** Better than 65 dB.

**Total noise with CCITT load:** Less than 500 pWop.

**Signalling level:** -15 dBm0.

**Power supplies:** 110-150, 190-240 V a.c. ( $\pm 10\%$ ), 50-60 Hz or -24 V d.c. ( $\pm 10\%$ ).

**Consumption (fully equipped):** 10 VA.

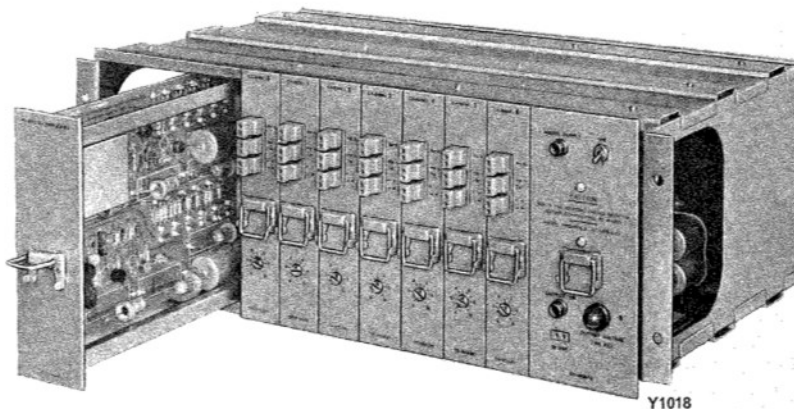
**Dimensions of unit:**

Width 19 in. (483 mm)

Height 7 in. (17.8 cm)

Depth 10 $\frac{1}{2}$  in. (27 cm)

Weight 29 lb (13 kg) (fully equipped)



Channelling Equipment Shelf of H 7027

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