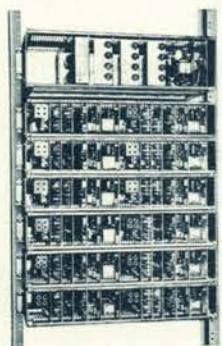
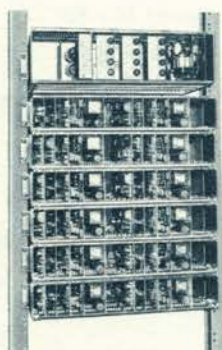


**STROMBERG-CARLSON**

# 661 and 665

## carrier systems GO CABLE

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STROMBERG-CARLSON now offers 661CA Subscriber Carrier and 665CA Trunk Carrier, 22-Channel, Cable Carrier Systems. The same widely accepted performance qualities and space-saving design of the 661A and 665A 12-Channel Open Wire Carrier Systems are now available for your cable-carrier expansion. As a matter of fact, all modular circuit cards are interchangeable—you can even convert your 661A and 665A for cable carrier application. And, when needed, you can still provide both inter-office trunk carrier and intermediate subscriber carrier over the same facility pairs.

There is no need to wait—you will have the finest—whether your cable-carrier needs are now or in the future.

## PERFORMANCE SPECIFICATIONS

**CAPACITY:** 22 channels—trunk or subscriber with up to 220 subscribers at 10 per channel.

**CARRIER TRANSMISSION BAND:** 32-344 kc.

**METHOD OF TRANSMISSION:** Double-sideband, amplitude-modulated, transmitted carrier.

**CHANNEL BANDWIDTH:** 300-3000 cps +1 -3 db referred to 1000 cps.

**TRANSMIT CARRIER LEVEL:** Nominal -20 dbm/0 per channel.

**REPEATER OUTPUT LEVEL:** Nominal -20 dbm/0 per channel.

**RECEIVER CARRIER LEVEL:** Nominal -20 dbm/0 per channel.

**DROP-SIDE VF LEVELS (2-wire):** Transmit, 0 dbm, nominal. **Receive,** -3 dbm, nominal.

**DROP-SIDE VF LEVELS (4-wire):** Input, -13 dbm or -16 dbm. **Output,** +4 dbm or +7 dbm.

**CARRIER-LINE LOSS (without repeater):** 35 db.

**CARRIER-LINE LOSS (repeated sections):** 20 db.

**SUBSCRIBER-DROP LOSS:** With ac power supply, 1200 ohms loop maximum.

With standby battery but without booster battery, 400 ohms loop maximum during ac power failure.

With standby battery and with booster battery, 1200 ohms loop maximum.

**COMPANDORS:** Not usually required for channels 1 to 10. Use depends on line noise and crosstalk conditions.

**POWER REQUIREMENTS:** Central office: 48 volts dc or 24 volts dc. 100 ma max per carrier channel.

Subscriber 4-channel terminal: 117 volts  $\pm 10\%$ . 50-66 cps. 100 watts max, 30 watts average.

**IMPEDANCE:** Carrier Line, 150 ohms, balanced cable pairs. **VF Line, 2-wire,** 600 ohms or 900 ohms, balanced.

**VF Line, 4-wire,** 600 ohms, balanced. **Repeater,** 150 ohms, balanced.

**SIGNALING:** Subscriber, Carrier keyed off-on.

Trunk, Out of band (3500 cps), 8 to 20 pps with less than 4% distortion, E & M, 2-wire and 4-wire.

**Dial Speed Limits,** Subscriber system will operate with dial speeds of 8 pps to 14 pps;

trunk system, 8 to 20 pps.

**Ringling (Subscriber),** Bridged or divided, using coded or frequency selective systems (harmonic, synchromonic, or decimonic); superimposed using coded or non-coded.

**REVERTIVE:** Will operate with any revertive call circuit which alternately rings the calling and called parties.

Note: Specifications are subject to change without notice.



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