

Telecasting and Broadcasting EQUIPMENT

ON THE
FOLLOWING
PAGES:

TV and AM
equipment
items

made by
leading
manufacturers

and
distributed
by Graybar

Offices and
warehouses
in over 100
principal
cities

in our
83rd
year

To get you on the air... and **KEEP YOU THERE—** that's **Graybar's job**

Here's a different kind of "package"—a *complete* package that puts you on the air with efficient, well-engineered equipment in the shortest possible time.

It's the big reason why it pays to call Graybar *first* for broadcasting equipment of any type. Based on more than 25 years experience in supplying the needs of the broadcasting industry, Graybar's services help you save both time and money.

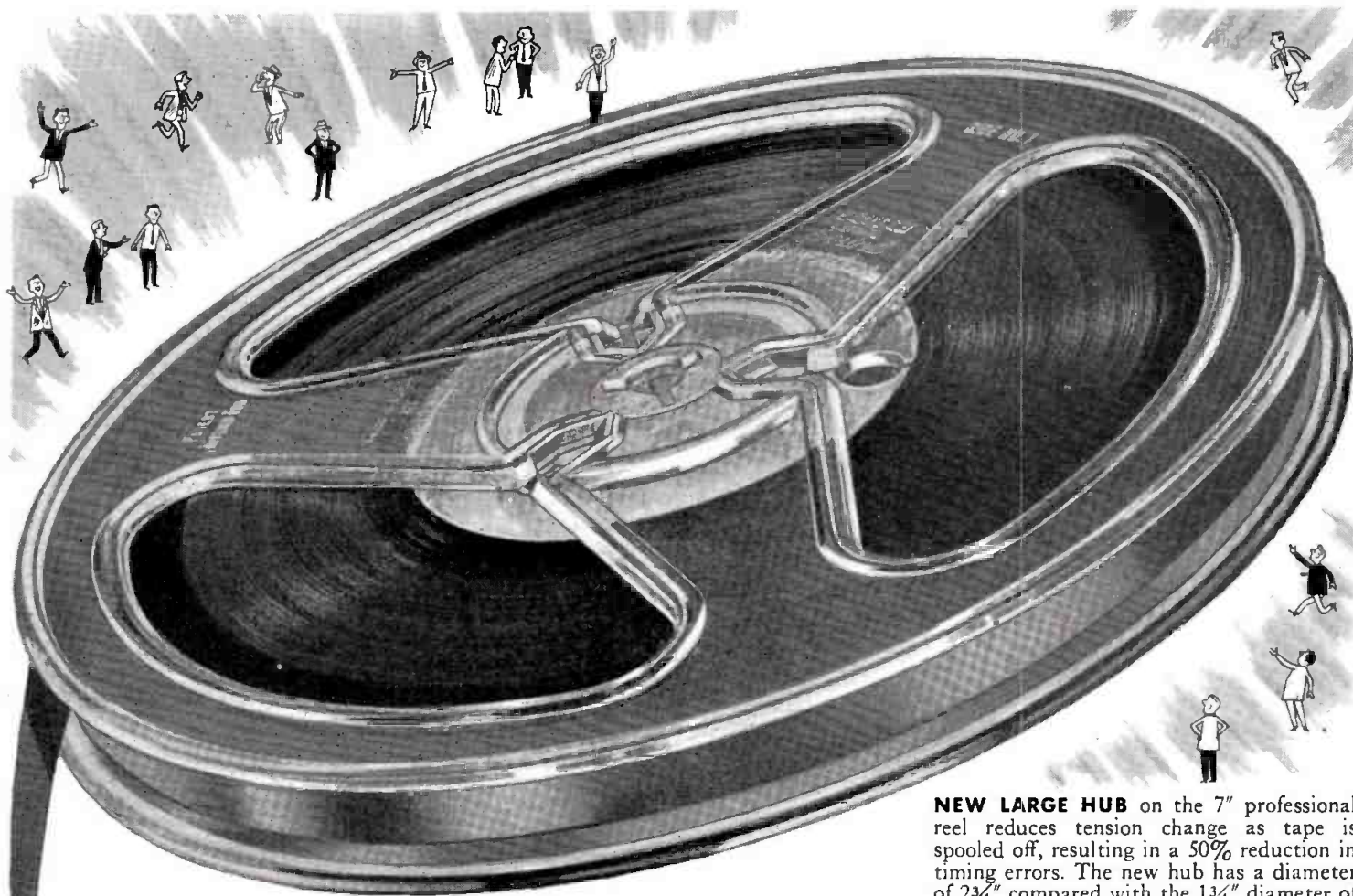
- You get the planning help of experienced Graybar Broadcast Equipment Representatives — expert advice on the selection, operation, and maintenance of your facilities . . . plus, if you desire, a complete packaged proposal covering all of the electronic equipment items you require.
- You select from among the nation's outstanding product lines — dependable equipment you know and respect.
- By planning ahead, you take advantage of reliable, on-schedule deliveries — made wherever possible from a near-by Graybar warehouse.
- You get the extra "satisfaction insurance" that's automatic when you deal with Graybar's employee-owners.

Whatever your TV or AM requirements, call Graybar first — it's the easy way to get everything electrical *when* and *where* you need it. *Graybar Electric Co., Inc. Executive Offices: Graybar Building, New York 17, New York.*

268-19

EVERYTHING ELECTRICAL FOR TV OR AM . . .

via
Graybar



★ Cuts timing errors 50% ★ Reduces pitch changes ★ Splice-free

It's the new "Scotch" brand dry-lubricated magnetic tape on the new 7" professional reel!

NEW LARGE HUB on the 7" professional reel reduces tension change as tape is spooled off, resulting in a 50% reduction in timing errors. The new hub has a diameter of $2\frac{3}{4}$ " compared with the $1\frac{3}{4}$ " diameter of standard 7" reels. Thus it has approximately the same ratio of outside diameter to hub diameter as the standard NARTB 10 $\frac{1}{2}$ " metal reel. Another feature of this new reel is the single small threading slot, which minimizes mechanical distortion of the layers of tape nearest the hub.

★ A new, improved tape for this new, improved reel!

- **"DRY LUBRICATING"** process gives you a tape that practically eliminates sticking, squealing and cupping... a completely dependable tape that turns in a flawless performance in almost any condition of heat or humidity!
- **100% SPLICE-FREE!** Tape supplied on the 7" professional reel is guaranteed to be completely free of splices.
- **GUARANTEED UNIFORMITY!** Output variation of tape wound on the new 1200-foot reel is guaranteed to be less than plus or minus $\frac{1}{4}$ db at 1000 cps within the reel, and less than plus or minus $\frac{1}{2}$ db from reel to reel.



See your distributor for a supply of 7" professional reels and new dry lubricated tape!



The term "SCOTCH" and the plaid design are registered trademarks for Sound Recording Tape made in U.S.A. by MINNESOTA MINING & MFG. CO., St. Paul 6, Minn.—also makers of "Scotch" Brand Pressure-sensitive Tapes, "Underseal" Rubberized Coating, "Scotchlite" Reflective Sheeting "Safety-Walk" Non-slip Surfacing, "3M" Abrasives, "3M" Adhesives. General Export: 122 E. 42nd St., New York 17, N. Y. In Canada: London, Ont., Can.

EVERYTHING ELECTRICAL FOR TV OR AM...





in this room...

there's no room for doubt

There can be no room for doubt in the continuity and fidelity of your broadcast. Precisely the reason you demand—and get—the best in transmitting and studio equipment.

Nor should you compromise with quality in the tape recorder you select.

In AMPEX Recorders you will find the same matchless reliability and performance you expect of your transmission equipment... and for the same reason—they are engineered to the highest *professional* standards.



AMPEX

brings you these cost-saving operating advantages:

- **UNINTERRUPTED SERVICE**

Under the demand of heavy-duty programming, AMPEX Recorders deliver thousands of hours of unbroken service. Recently a set of AMPEX heads was returned from Honolulu for routine replacement after 11,000 hours continuous use, 17 hours a day. The heads were still within AMPEX specifications for new heads and had several thousand more hours of use remaining.

- **MINIMUM "DOWN TIME"**

AMPEX Recorders are designed for thousands of hours of continuous operation with minimum "down time," resulting in low maintenance costs and protection from sudden broadcast failures.

- **ACCURATE TIMING**

AMPEX split-second timing accuracy protects your programs and commercials from embarrassing time overlaps.

- **HIGHEST FIDELITY**

Even when programs are repeatedly transcribed from one tape to another, there is no noticeable build-up of noise level, "wow" or distortion.

- **LONG LIFE**

AMPEX Recorders are designed and built for years of service dependability. Its recordings match established NARTB standards. When you have an AMPEX, you have a machine built for years-ahead performance.



IF YOU PLAN FOR TOMORROW, BUY AN AMPEX TODAY

AMPEX

MAGNETIC RECORDERS

AMPEX ELECTRIC CORPORATION
934 CHARTER STREET • REDWOOD CITY, CALIF.

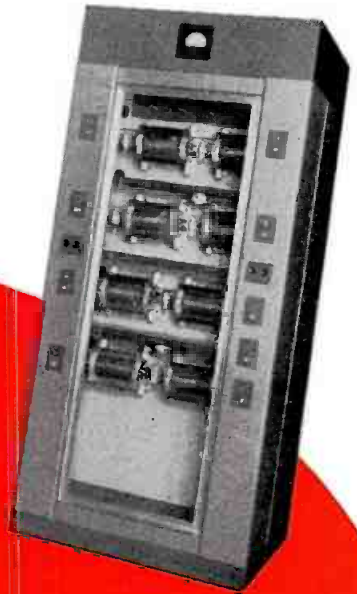
EVERYTHING ELECTRICAL FOR TV OR AM...





The CONTINENTAL Type 315 Transmitter, at left, offers a deluxe design for 5 KW AM operation. It has many features not ordinarily incorporated in transmitters of this class, including special equipment for matching transmitter output into sharply tuned loads often encountered in directional arrays.

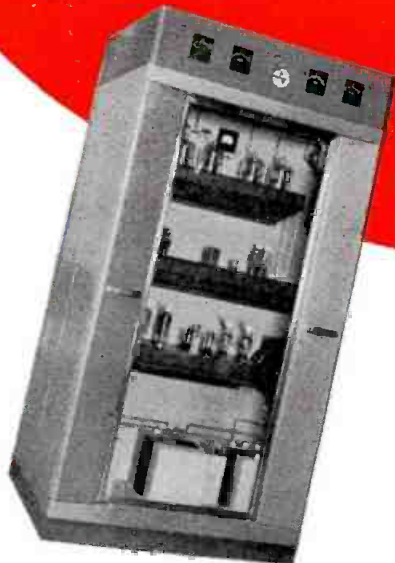
The Phasing Control and Power Division Unit, at right, is custom designed to fulfill individual station requirements. It is housed in a new style, unified, all aluminum cabinet, and is designed to be a companion unit to any of the CONTINENTAL transmitters.



**FOR BROADCASTING
EQUIPMENT ABOVE AND
BEYOND THE USUAL STANDARDS**

Continental

IS THE NAME TO REMEMBER



A recent addition to the CONTINENTAL line is the Type 314-2 1 KW AM Transmitter, at left. Simplicity of design and operation has been achieved without sacrifice of refinement features found in larger equipments. All aluminum cabinet of special, unified, frameless design incorporates Transview styling with functional features affording maximum accessibility, shielding, and circulation of air for cooling.

Latest CONTINENTAL creation is the new Type 312 250-watt Transmitter, at right, which combines exceptionally fine performance with extreme simplicity. It has the same style of cabinet as the Type 314-2 with attendant features.



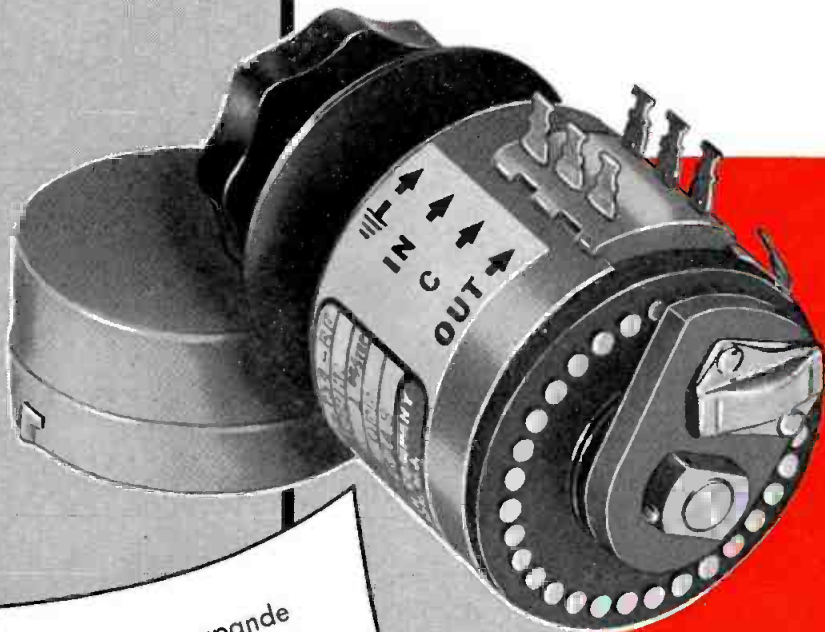
EVERYTHING ELECTRICAL FOR TV OR AM...



THESE ARE THE

REASONS

WHY **DAVEN** IS THE LEADER IN THE AUDIO ATTENUATOR FIELD



Greatly expanded production facilities enable Daven to make delivery from stock on a large number of standard attenuator types.

LA-130 Series,
Ladder Network
30 Steps, 1 3/4" Diameter

- 1 "KNEE-ACTION" ROTOR . . . gives positive contact and low contact resistance under all conditions.
- 2 BRASS CASE OF 2-PIECE CONSTRUCTION . . . gives excellent shielding and allows more compact equipment design.
- 3 "LOCK-TITE" DUST COVER . . . designed to withstand severe vibration and at the same time allow easy accessibility.
- 4 ENCLOSED ROLLER-TYPE DETENT MECHANISM . . . gives positive indexing, but does not increase depth of unit.
- 5 LOW-LOSS MOLDED TERMINAL BOARD . . . has high resistance to leakage.



Write for complete catalog data.

THE **DAVEN** CO.

WORLD'S LARGEST MANUFACTURER OF ATTENUATORS

178 Central Ave., Newark 4, N.J.

EVERYTHING ELECTRICAL FOR TV OR AM...



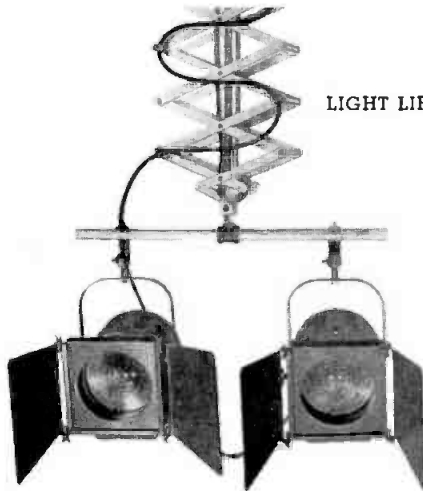
the most
advanced
equipment for
television
studio lighting
is made by

CENTURY

your Graybar
representative
will supply
you with
complete literature
upon request

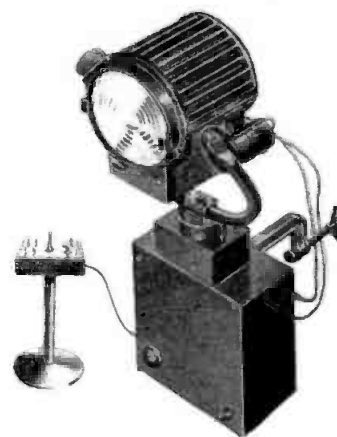
CENTURY LIGHTING, INC.
521 WEST 43RD STREET,
NEW YORK 36
626 NORTH ROBERTSON
BOULEVARD,
LOS ANGELES 46

FRESNELITES

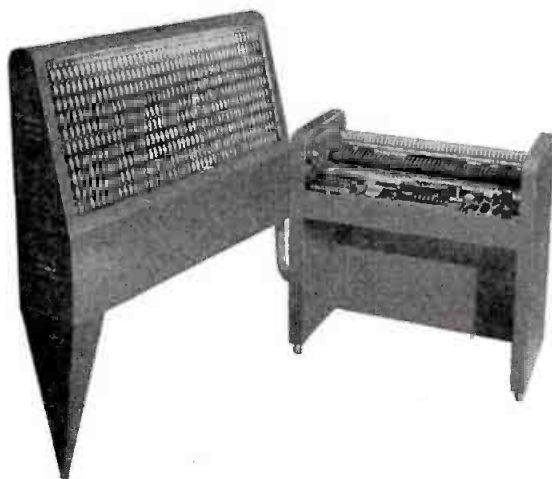


LIGHT LIFTS

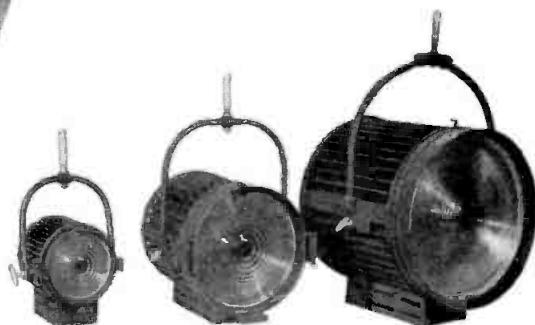
REMOTES



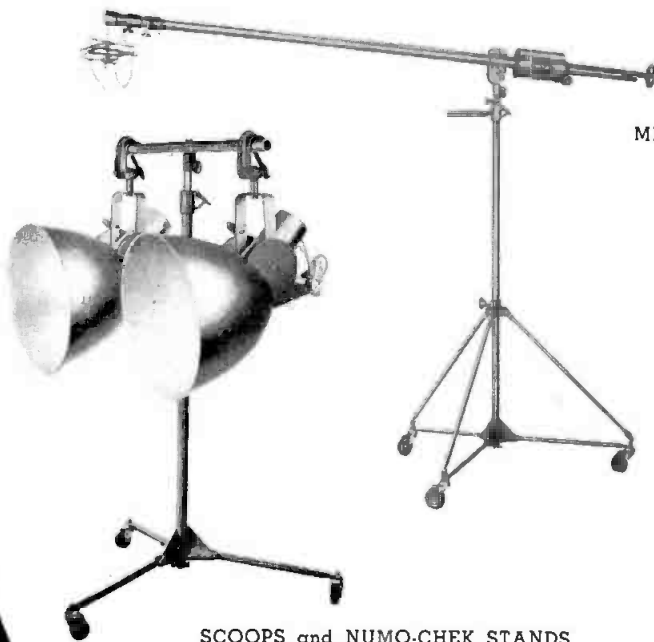
C-I BOARD: all-electronic control system



FEATHERLITES



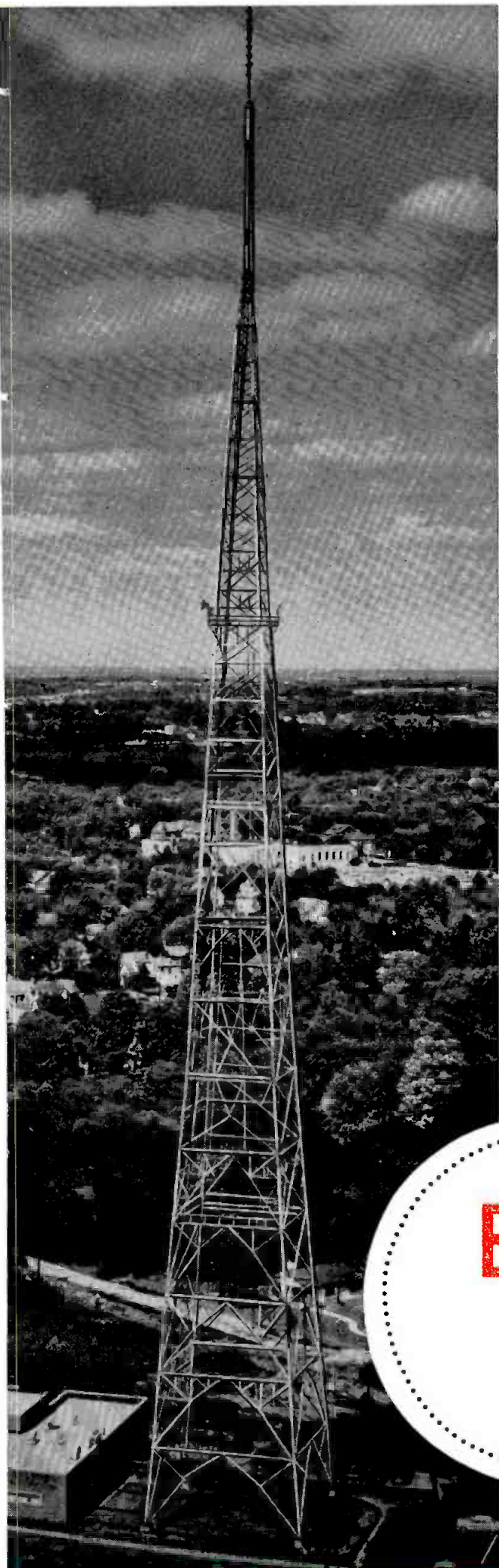
MIKE BOOM



SCOOPS and NUMO-CHEK STANDS

EVERYTHING ELECTRICAL FOR TV OR AM...

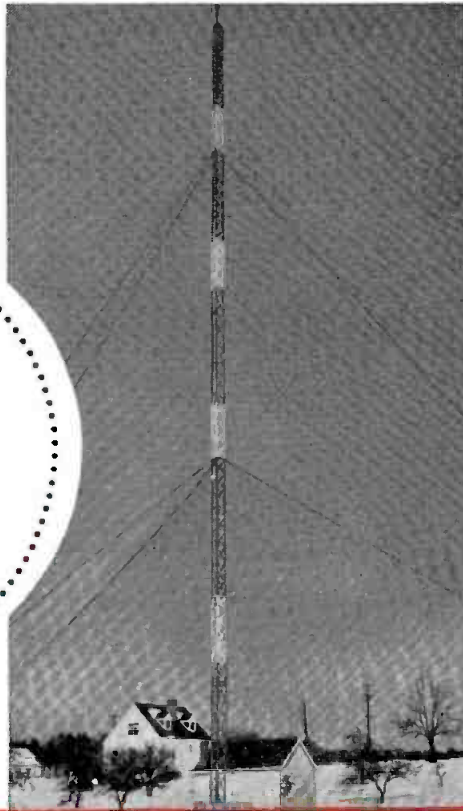




Look to Graybar for the best in TV equipment *Inside and Out!*

It's just good common sense to match that fine transmitter equipment in your station with the best possible tower available in both guyed and self-supporting types. In heights to 1000 feet (or higher), you can select the Blaw-Knox tower that will insure maximum coverage. Soundly designed and sturdily constructed, with a minimum of deflection, these towers are engineered to provide the highest safety factor regardless of location. Heavy galvanizing gives longer life at lowest maintenance cost.

For over 30 years Blaw-Knox has been building towers that are considered the standard of comparison throughout the world. The result of this experience is yours for the asking . . . Graybar can furnish capable engineering assistance in selection of the right tower for your facilities.



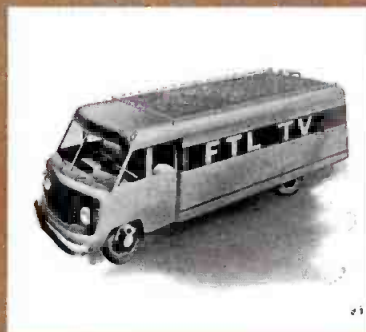
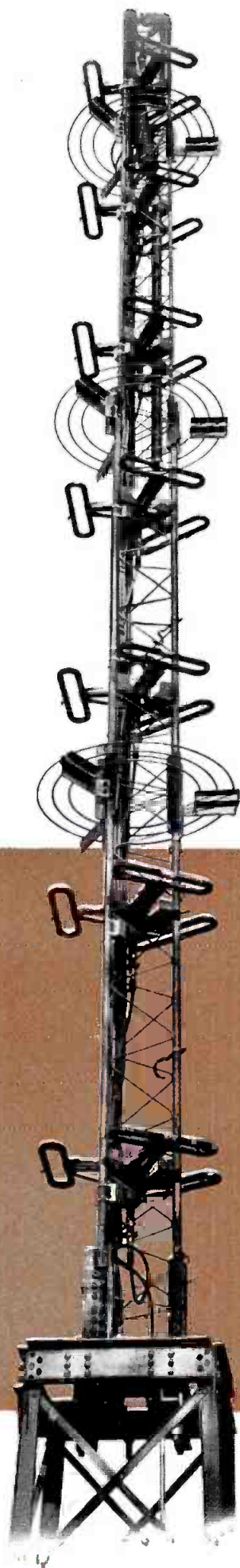
BLAW-KNOX
Antenna
TOWERS

EVERYTHING ELECTRICAL FOR TV OR AM...



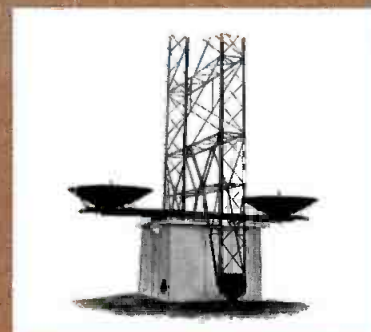
One TV

**...everything you need
for the finest Station
and Studio facilities...
including Mobile Units
and Microwave Radio
Relay Links**



Mobile TV Pick-Up Unit

A new design in Mobile Television Units. Over-all size carefully chosen for optimum maneuverability combined with spacious, efficient interior layout. Completely equipped with provisions for dual field camera chain and portable microwave link. Air-conditioned, attractive in appearance, yet moderate in cost, FTL's Mobile Unit is outstanding in every respect.



Microwave TV Links

For Studio-Transmitter Link, Inter-city Relay and Remote Pick-ups. Ground-mounted antennas, unattended automatic operation and advanced circuitry provide most widely accepted unit for this service. High-power output and crystal control provide maximum circuit dependability. Sound Channel Equipment—an exclusive FTL development—permits multiplexing audio and video.

Highest Gain Antennas for Channels 7-13. Sixteen-loop array provides maximum ERP with only 25 Kw r-f power and single transmission line. Simplified structure reduces tower and erection costs. For better over-all coverage, new phasing system eliminates minor lobe nulls... provides high field strength in primary service area. One of the greatest new advances in VHF antennas.

EVERYTHING ELECTRICAL FOR TV OR AM...



package from *Federal*



Image Orthicon Cameras

For Studio, Field and Film. Improved performance, utmost dependability and greatest flexibility for all three program sources. Highest quality pictures and smooth operation with as many as four cameras for superior results. Interchangeability of units results in maximum facilities, reduced spares and other economies. Extensive accessories available for studios of all sizes.



"Poly-Efex" Scanner

Federal's outstanding innovation for the best in television programming. Provides 4-channel video switching for its two self-contained slide sources, *plus* any two external signals. Permits an untold variety of special effects, montages, superpositions, wipes, 3-speed automatic or manual lap dissolves and fades—all with a *single* operator. Forms the operating heart of the TV station.



VHF and UHF Transmitters

Modern, high-efficiency VHF transmitters with outputs of 1, 5, 7.5 and 25 Kw, and UHF transmitters of 1 and 10 Kw. Proven design and performance features include: "mid-level" modulation, broad band r-f circuits, long life, and low costs. Supplied with Master Control Console. Sideband filters, dummy loads and all auxiliary monitoring equipment also available.

Packaged Television Stations . . . every need for complete station equipment supplied by a single, dependable source . . . Federal Telecommunication Laboratories. FTL's outstanding facilities for TV research, design, engineering, and manufacturing offer the flexibility essential to today's wide range of telecasting requirements.

Here is the answer to getting on the air with economy and speed. Here is the answer to *all* studio, station, and remote equipment needs . . .

providing unsurpassed quality and performance . . . *plus* a broad margin of versatility for the most advanced program techniques.

When you are on the air with Federal TV you can be sure there is no sounder way to invest your television dollar.

When you buy Federal TV you buy the pioneering achievements, the decades of research and development experience, and the patent resources of the world-wide IT&T System!



Federal Telecommunication Laboratories, Inc.

500 WASHINGTON AVENUE • NUTLEY, NEW JERSEY

Canadian Distributor: Federal Electric Manufacturing Company, Ltd., Montreal, P. Q.

Export Distributor: International Standard Electric Corp., 67 Broad St., New York

EVERYTHING ELECTRICAL FOR TV OR AM...



Stay **ON THE AIR** WITH THESE QUALITY PRODUCTS

TIREX MICROPHONE CORD

- A light, extremely flexible microphone cord. It has been an industry standard since the early days of radio. Widely known for its ability to withstand abuse. Smooth jacket will not catch on stages or sets.

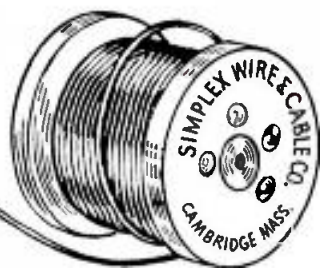
TIREX PORTABLE CORDS

- A very tough, extremely flexible cord for a great variety of uses. Frequently used in connection with portable lights and with banks of overhead lights. Jacket is special neoprene compound that will withstand toughest service.

SIMPLEX ANHYDROPRENE

- For power distribution, panel board wiring and for signal service. Has a thin jacket of neoprene in place of fabric braids. Jacket is colored for circuit identification. Will operate satisfactorily at temperatures up to 167°F.

For these and many other Simplex wires and cables see your local Graybar branch. If they do not have them in stock they can get them for you quickly.



SIMPLEX WIRE & CABLE Co.

MANUFACTURERS

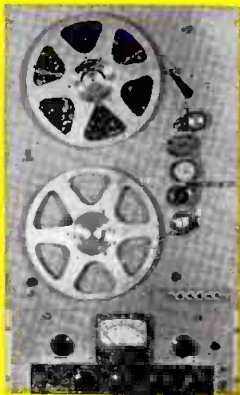
79 SIDNEY STREET — — — CAMBRIDGE 39, MASS.

EVERYTHING ELECTRICAL FOR TV OR AM...



8

reasons why
engineers everywhere
select **PRESTO** above all others



TAPE RECORDERS

PRESTO RACK MOUNTED RC-10/24

Rack-mounted recorder with 10 1/2" reel capacity. Has solenoid actuated brakes on a three-motor drive system. Torque motors make tension clutches unnecessary. Fast forward and rewind speeds. Three heads for erase, record, reproduce.

PRESTO PORTABLE RC-10/14

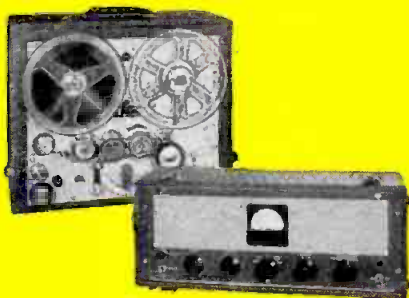
The ideal super-quality portable unit. Basically the same as the model RC-10/24. Rotary deck type selector control. Speeds of 7 1/2"/sec. and 15"/sec. giving wide frequency response.

PRESTO PORTABLE PT-920

PRESTO's new addition to the tape family. Succeeds the popular PT-900—and costs less. Exceedingly compact with 10 watt amplifier, 2 speakers and amplifier in one case. Fast forward and rewind speeds, 3 motors, no friction clutch or tension adjustments.

PRESTO TAPE REPRODUCER TL-10

Most amazing development to hit the recording field in years. Makes any standard 16" turntable quickly adaptable to tape. Turntable acts as motor; speeds of 7 1/2"/sec. and 15"/sec. Plugs into standard studio speech input equipment; no preamplifier required.



DISC RECORDERS

PRESTO STUDIO CONSOLE 8 D-G

Designed to cut the finest instantaneous and master recordings. Has radial cantilevered overhead requiring no turntable contact. 1-D cutting head. Direct gear drive and twin motors. Selection of 8 different feed pitches in each direction, including 250 lpi microgroove.

PRESTO PORTABLE 6-N

World favorite! Unusual reliability under all recording conditions. Low mechanical noise level. Speed accuracy excellent at 78 and 33 1/3 rpm. Equipped with 1-D cutting head. Microgroove attachment available at extra cost.

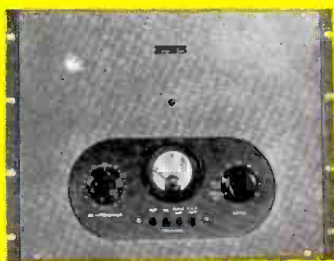
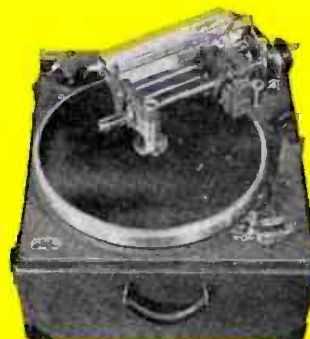
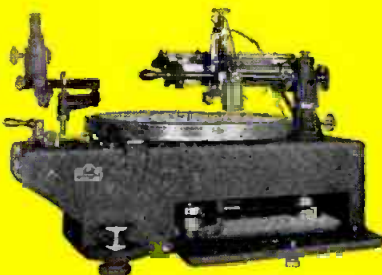
RECORDING AMPLIFIERS

PRESTO 92-B

PRESTO's famous 60 watt recording amplifier for rack mounting. Removable front panel makes maintenance easy. Selector switch and one meter indicate output level and tube plate currents. Push-button selector for recording characteristics. Response: 20 to 17,000 cps.

PRESTO PORTABLE 90-B

Qualities of high fidelity studio console but portable, with complete facilities for remote operation. Distortion of less than 1.5% at maximum output. Equalizers for flat, NAB 33 1/3 rpm, phono, NAB playback and automatic .3 microphone input with mixer and master gain control.



PRESTO RECORDING CORPORATION
PARAMUS, NEW JERSEY

Export Division: 25 Warren Street, New York 7, N. Y. Canadian Division: Walter P. Dawns, Ltd., Dominion Square Bldg., Montreal

WORLD'S LARGEST MANUFACTURER OF PRECISION RECORDING EQUIPMENT AND DISCS

EVERYTHING ELECTRICAL FOR TV OR AM...

via
Graybar

.....TO KEEP YOU

with **RELIABILITY**

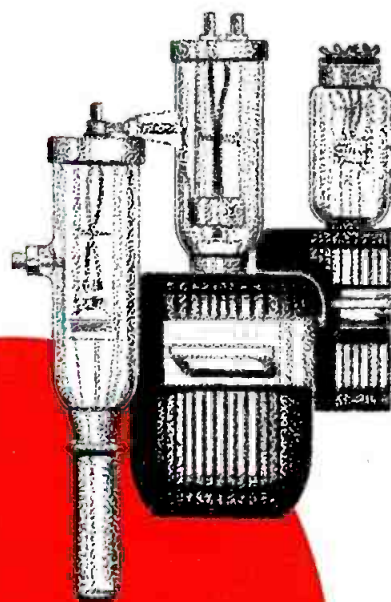
Graybar's selection of the Machlett line
of transmitting tubes is its best assurance to you of
"keeping you on the air."

The Machlett line of broadcast tubes is designed and pro-
duced to satisfy the needs of all broadcasters
—AM, FM and TV

—and to provide reliable, low cost operation
at all power levels up to the very highest.

Manufactured by Machlett Laboratories, Incorporated,
specialists in electron tube design
and production for over 50 years,
these tubes incorporate all the techniques and skills
which have been inherently a part of
Machlett Laboratories since 1897.

This established quality,
coupled with the added advantage of immediate availa-
bility made possible by Graybar's widespread distribu-
tion system, guarantees Graybar's pledge
—"to keep you on the air."



TUBES FOR AM BROADCAST SERVICE

Final Stage Amplifiers, Modulators, Drivers,
and Rectifiers—Incorporating Machlett im-
provements in design and processing—
For reliable, low-cost-per-hour opera-
tion.

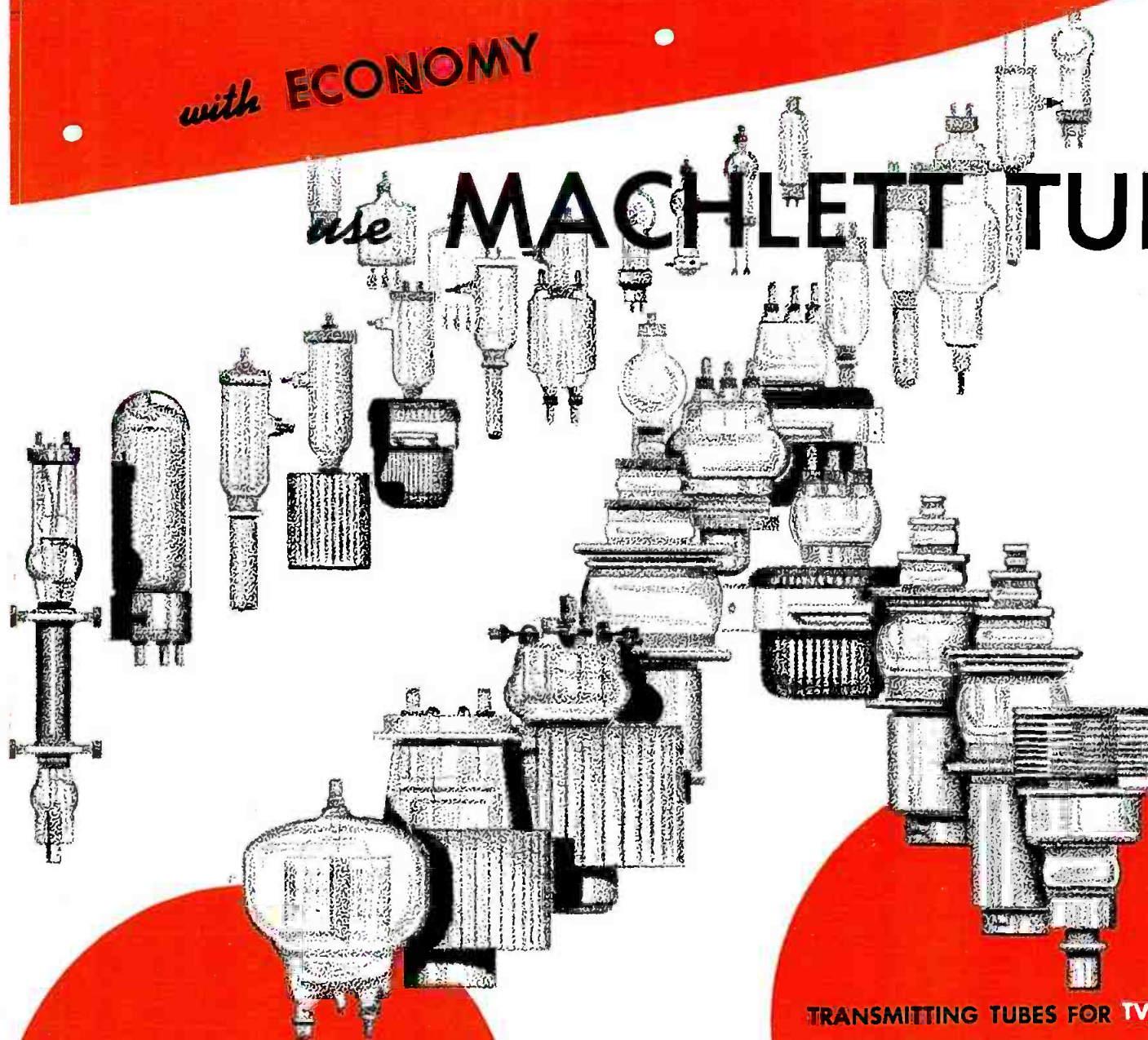
EVERYTHING ELECTRICAL FOR TV OR AM...



ON THE AIR....

with **ECONOMY**

use **MACHLETT TUBES**



FM BROADCAST TUBES

1, 3, 10 and 50 Kilowatt Amplifiers as well as Drivers and Rectifiers — Tubes for a broad range of power requirements— With Machlett advances in construction for top performance in high-frequency service.

TRANSMITTING TUBES FOR TV SERVICE

Very-High-Power Single-Tube Amplifiers for VHF Channels—Featuring: coaxial, compact, high-efficiency design; sturdy, close-tolerance construction; and Machlett-developed, special processing techniques—Providing: minimum cost, reliable performance in high-power, high-frequency service.

EVERYTHING ELECTRICAL FOR TV OR AM...



WE RECOMMEND TRANSMISSION LINES AND ASSOCIATED APPARATUS

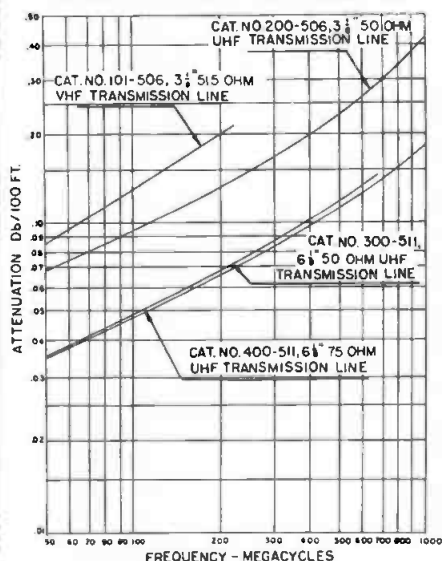


by

Communication Products Company, Inc.

—for AM, FM and TV!

ATTENUATION IN DB/100 FT. VS. FREQUENCY IN MEGACYCLES PER SECOND FOR 3 1/2" 51.5 OHM VHF — 50 OHM UHF — 6 1/2" 50 OHM UHF — 75 OHM UHF TRANSMISSION LINES

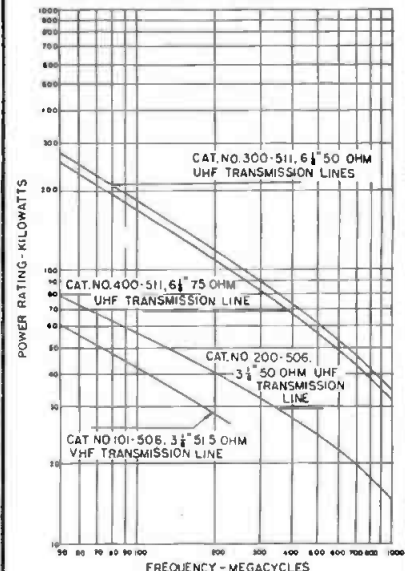


We recommend transmission line by Communication Products Company, Inc., because of its consistent performance over the years, its sound, practical design and generally high order of technical excellence.

New and better transmission line products by Communication Products Company, Inc., are now available or on the way for use in VHF and UHF television service.

A complete line of accessories is ready. This includes new and better dehydrators and tower hardware. Attenuation values and power ratings for new types of lines intended for UHF service are given in the accompanying illustrations.

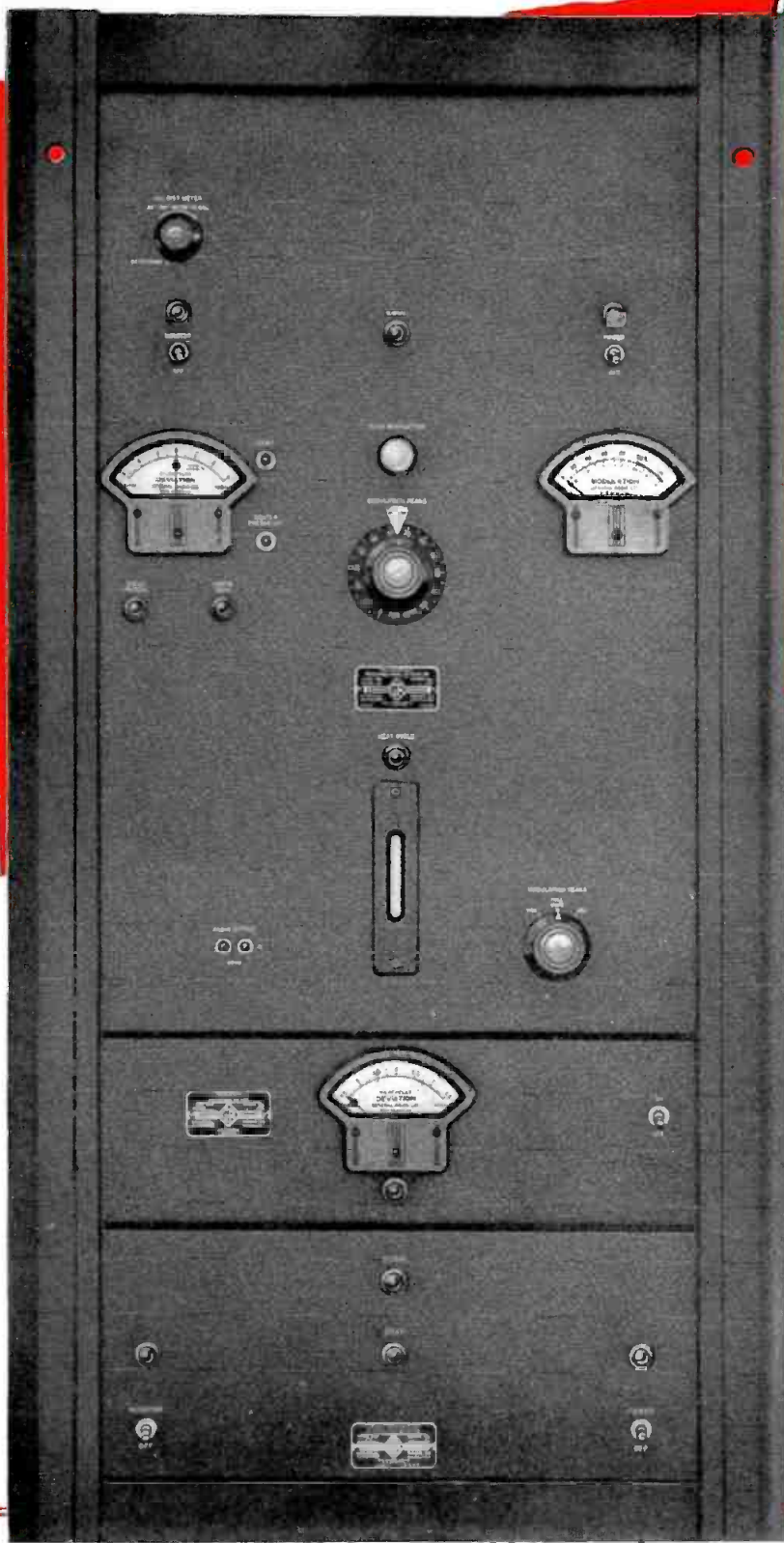
POWER HANDLING CAPACITY VS. FREQUENCY IN MEGACYCLES PER SECOND FOR 3 1/2" 51.5 OHM VHF — 50 OHM UHF — 6 1/2" 50 OHM UHF — 75 OHM UHF TRANSMISSION LINES



FOR FURTHER PARTICULARS, WRITE FOR OUR BULLETIN 552

EVERYTHING ELECTRICAL FOR TV OR AM...





Memo to T.V. Station Managers

A NEW T-V MONITOR

for the VHF and UHF bands Channels 2 to 83

The new G-R Type 1183-T T-V Monitor meets all requirements of the FCC, including those recently established for offset operation. It not only provides complete monitoring facilities for VHF and UHF stations in accordance with FCC specifications, it assures the quality of everyday transmissions as well. Monitoring of distortion, noise, modulation level, and video and audio carrier frequencies, with the aid of this instrument, results in the rapid detection of substandard operation. The T-V Monitor provides:

- ★ Continuous visual indication of aural transmitter frequency-deviation in terms of a highly stable master crystal.
- ★ Continuous visual indication of frequency-deviation of visual transmitter in terms of same master crystal.
- ★ High fidelity audio output for distortion and noise-level measurements and for audio monitoring.
- ★ Continuous indication of percentage modulation and an over-modulation alarm.

This instrument — the *first* UHF Monitor — is another example of the pioneering in engineering, design and workmanship which has characterized G-R monitoring equipment since the beginning of broadcasting. Stability, accuracy, ease of maintenance and operation, dependability and long life are optimum. The G-R trademark *guarantees* trouble free operation with a minimum of maintenance. Simplifications in convenience to operating personnel are a Major Feature.

Prices: From \$2435 to \$2535
depending on Frequency Bands

- ★ Excellent signal to noise ratio through channel 83.
- ★ Large illuminated meter scales for easy operation.
- ★ Overmodulation lamp flashes when modulation exceeds level set by a dial.

- ★ Pilot lamp indicates adequate R-F input level.
- ★ Terminals are provided for connecting remote center-frequency and modulation meters and overmodulation indicators.
- ★ Separate a-c inputs for heater and monitor circuits enable direct connection of crystal oven to station stand-by power circuit.

- ★ Panel switch allows simultaneous indication on modulation meter of both positive and negative peaks, as well as choice of either peak.
- ★ New cabinet simplifies installation and removal of monitor from rack for maintenance.
- ★ Chassis arranged for maximum heat dissipation and easy servicing.



GENERAL RADIO Company

275 Massachusetts Avenue, Cambridge 39, Massachusetts, U. S. A.

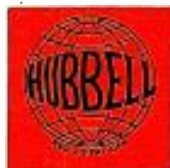
90 West Street NEW YORK 6 920 S. Michigan Ave. CHICAGO 5 1000 N. Seward St. LOS ANGELES 38

EVERYTHING ELECTRICAL FOR TV OR AM...



Hubbellock

TRADE-MARK



Twist-Lock

TRADE-MARK

BREAK OR SEAL A CIRCUIT....

A twist of the cap and it's locked....

Twist-Lock



convenient and easy to use . . .

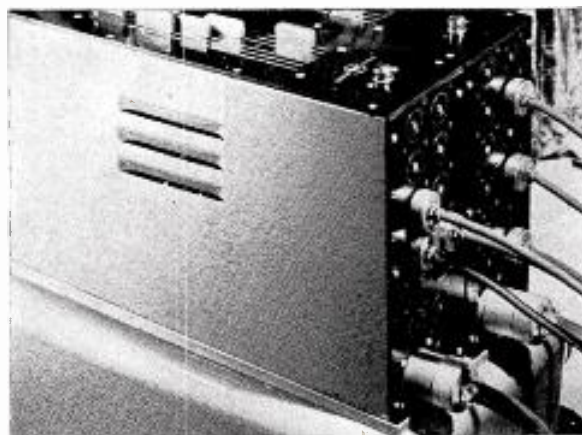
Twist-Lock devices are engineered and designed to meet a wide variety of conditions and requirements on permanent or portable apparatus, such as: motors, power outlets, audio packs, sound equipment, loud speakers, portable lights, testing equipment, and recording equipment.

Twist-Lock is manufactured in complete lines of two, three and four wire electrical locking devices — grounded and not grounded. Ratings range from 10 amperes to 50 amperes.

The unique locking principle of *Twist-Lock* connectors insures uninterrupted electrical contact regardless of vibration.

Twist-Lock has been in use for more than 23 years, serving the Broadcasting and Stage Lighting industry from coast to coast.

Twist-Lock is in use wherever trouble-free electrical connections are a necessity.



Twist-Lock devices in use on a Davis portable dimmer

for heavy duty
service . . .

Hubbellock



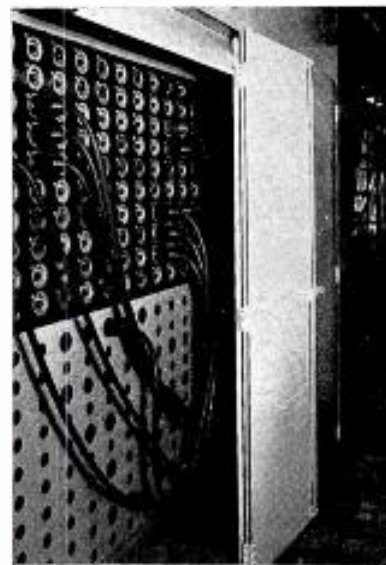
break or seal a circuit in a split second!

Connect in a split second and forget it . . . *Hubbellock* "stays put". Regardless of vibration *Hubbellock* is there to stay.

Disconnect in a split second, too . . . a simple turn . . . the spring loaded *Hubbellock* disconnects automatically.

A dead front safety shutter isolates contacts, snuffs arcs and keeps out dust. Perfect contact is guaranteed by supplementary tension springs located in back of phosphor bronze contact springs. The extra heavy steel casing is plated to prevent corrosion.

Styled for performance and built for lasting service — *Hubbellock* is the ideal connector for heavy duty use.



Hubbellock in use on a stage lighting panel

They never disconnect accidentally!



LOCKING FEATURE ILLUSTRATED

Our development laboratory will cooperate with your engineers to adapt HUBBELLOCK or TWIST-LOCK to your application . . . write

HARVEY HUBBELL, INC.

BRIDGEPORT, CONNECTICUT
Dept. "H"

EVERYTHING ELECTRICAL FOR TV OR AM...





HUBBELL



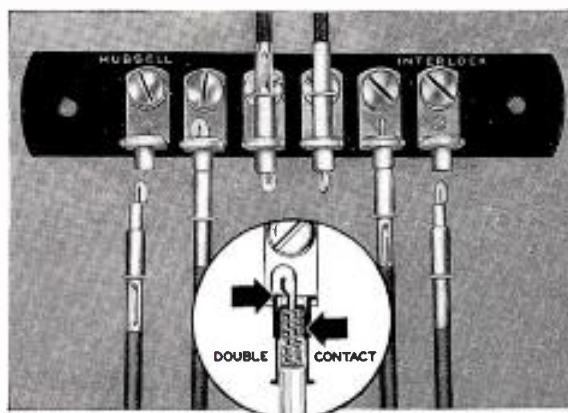
Interlock

TRADE-MARK

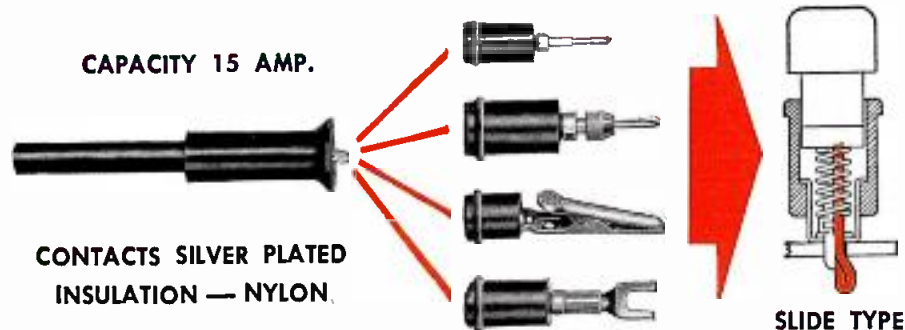
SELF LOCKING CONNECTORS

..The perfect solderless Wiring Connection!

Interlock connectors are suitable for a large variety of solderless terminal connections and wiring conditions. **Interlock** features are: automatic locking action, vibration proof, pull proof, and constant low resistance. Typical uses of **Interlock** in the broadcasting and television fields are their use on test equipment, control panel boards, telephone equipment, sound effect equipment, patch cords, terminal strips, and make up boards. The test prod kit offers many valuable uses in conjunction with various testing equipment and apparatus, and is now in use in many electronic laboratories and testing departments of many manufacturers.



TEST PROD KIT TYPE "S" SLIDE STANDARD



AUTOMATIC LOCKING ACTION Straight insertion locks plug to jack. Straight pull at sleeve releases plug from jack. Connector is either locked or separated, never "in-between". Life expectancy exceeds service requirements.

VIBRATION PROOF LOCK locking action is positive, and absolutely vibration and impact proof. Destruction of plastic parts leaves lock and contact unimpaired.

LOCK AND CONTACT IDENTICAL The contact parts themselves form the locking mechanism. Electrical breakdown is impossible as long as connector locks. Any failure shows at once.

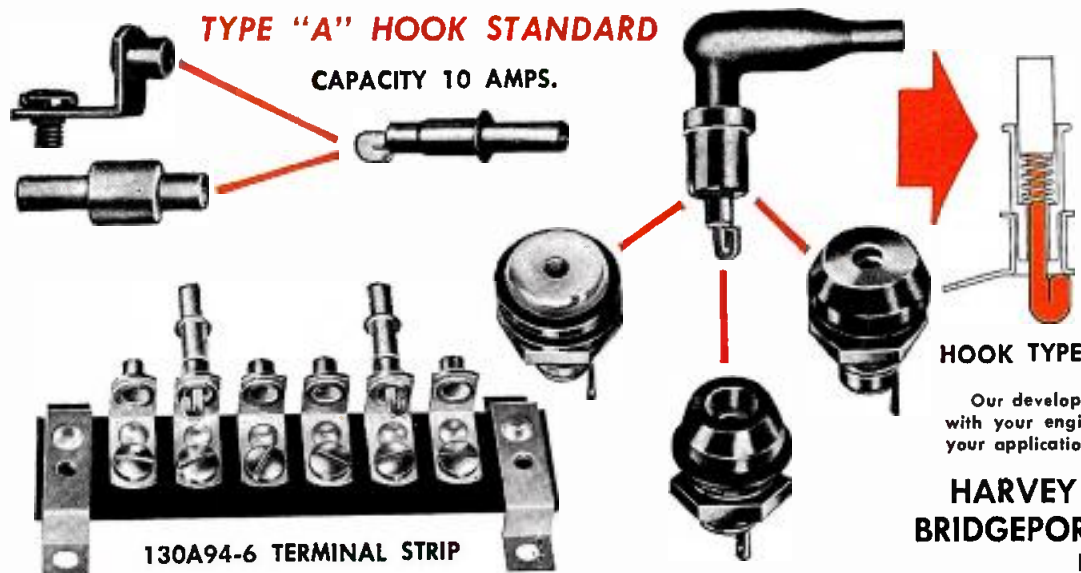
HAMMERBLOW CONTACT Contact is made on protected underside of jack contact. Spring-loaded hammerblow of contact head on insertion breaks through oxide and dirt film.

COMPENSATED DOUBLE CONTACT Auxiliary contact surface on sleeve increases contact area. If contact head lifts accidentally, spring pressure on sleeve increases and contact resistance remains constant.

TRUE PRESSURE CONTACT Contact head presses against jack contact under constant coil spring pressure. Actual contact pressure is controlled within close limits. Uncertain frictional contact is eliminated.

SELF ADJUSTING CONTACT If pressure or temperature cause elongation or contraction, coil spring automatically adjusts contact parts. Contact resistance remains constant.

LOW AND CONSTANT RESISTANCE Contact resistance is low in the extreme, and stays truly constant, due to unchanging coil spring pressure. Connector is permanently noiseless and crackle-free.

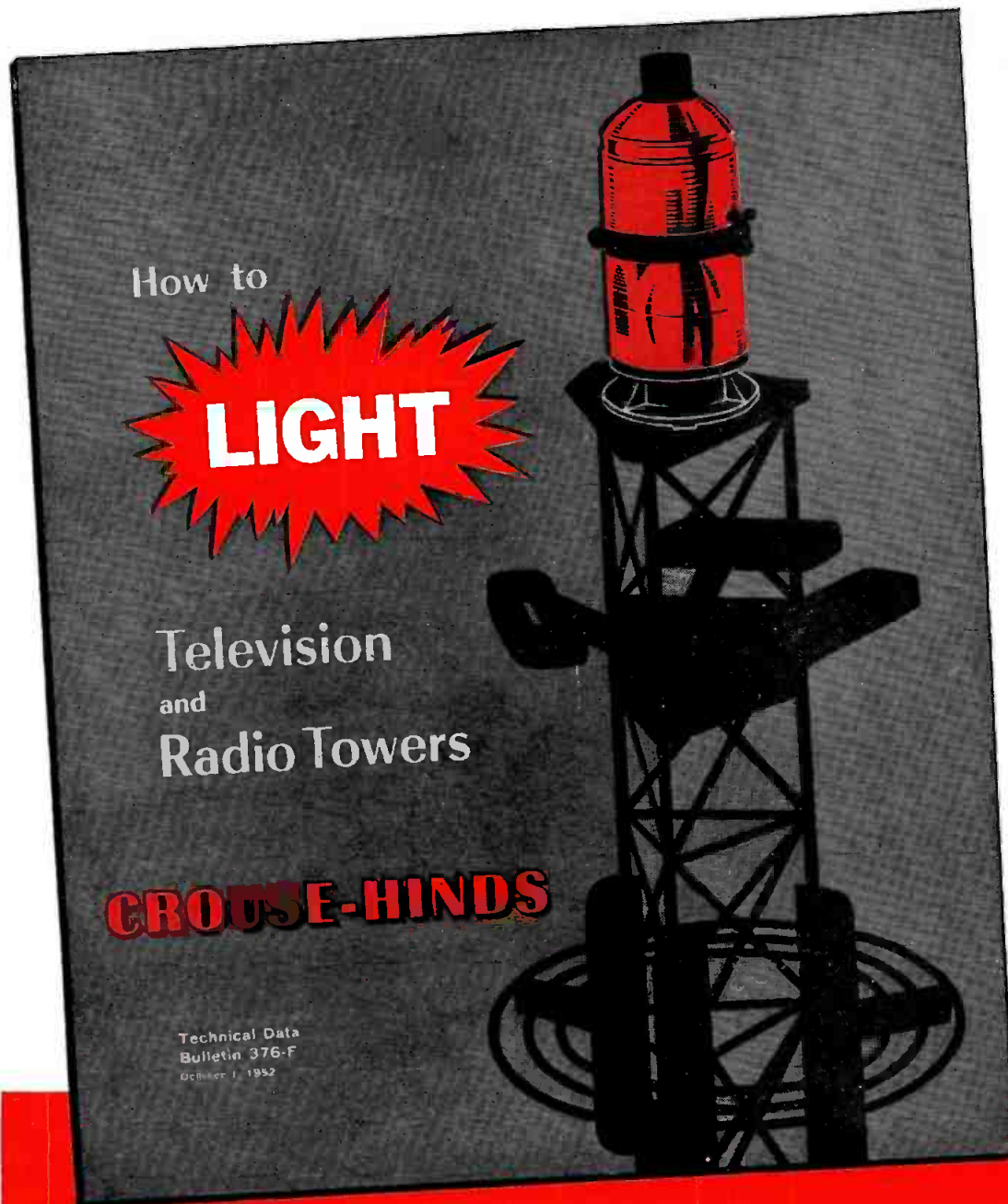


Our development laboratory will cooperate with your engineers to adapt INTERLOCK to your application . . . write

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BRIDGEPORT, CONNECTICUT
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How to

LIGHT

Television
and
Radio Towers

CROUSE-HINDS

Technical Data
Bulletin 376-F
October 1, 1952

**This bulletin makes it EASY for you
to plan your tower lighting**

Crouse-Hinds Bulletin 376-F contains important information on tower lighting and tells you exactly what you need to do the job. There are layout drawings with complete bills of material for lighting towers of all heights. All of the information meets the requirements of FCC and CAA specifications.

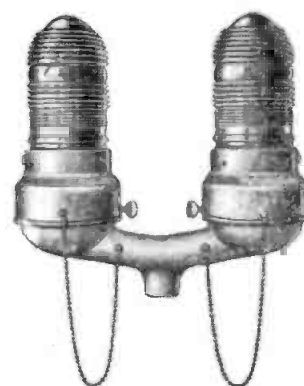
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RESIDENT REPRESENTATIVES: Albany — Atlanta — Baltimore — Charlotte — Corpus Christi — Richmond, Va.
Crouse-Hinds Company of Canada, Ltd., Toronto, Ont.



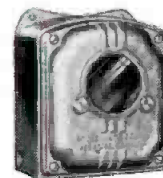
Type FCB-12
Fresnel Beacon



Type VAW
Double Marker Lights



Type TSS
Flashing Switch

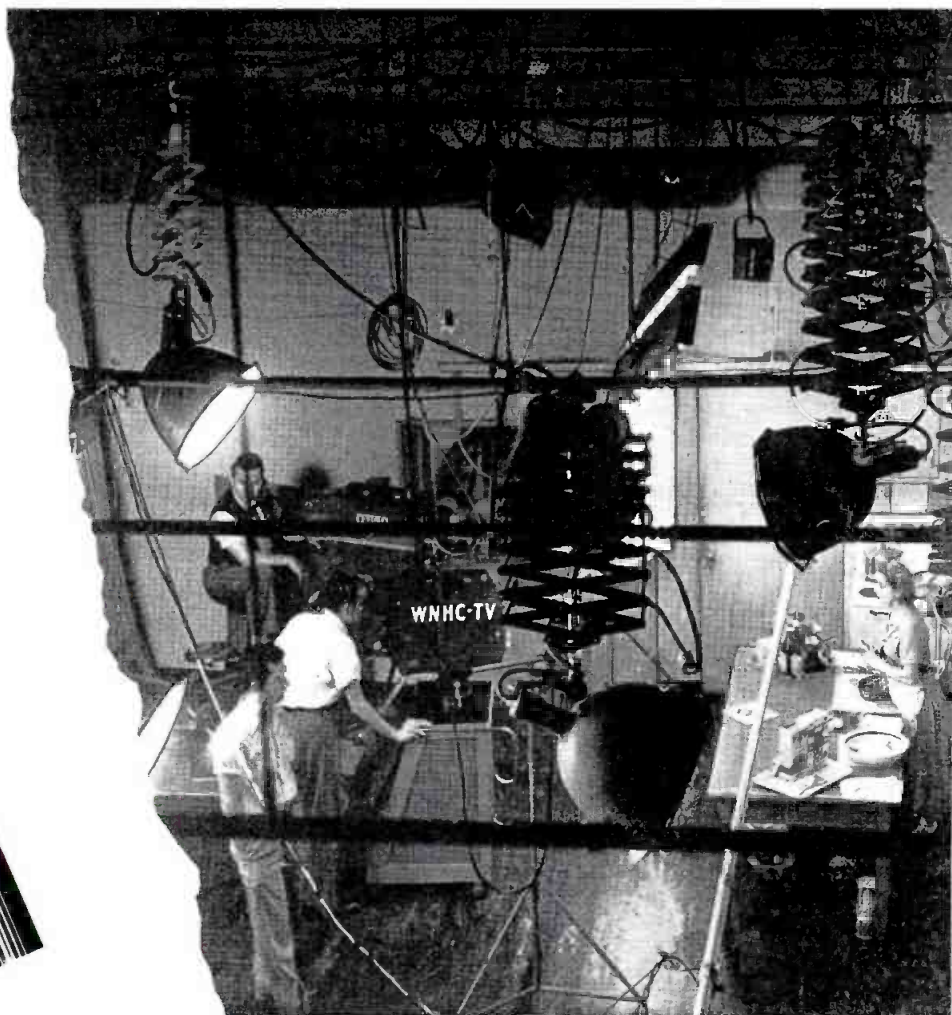
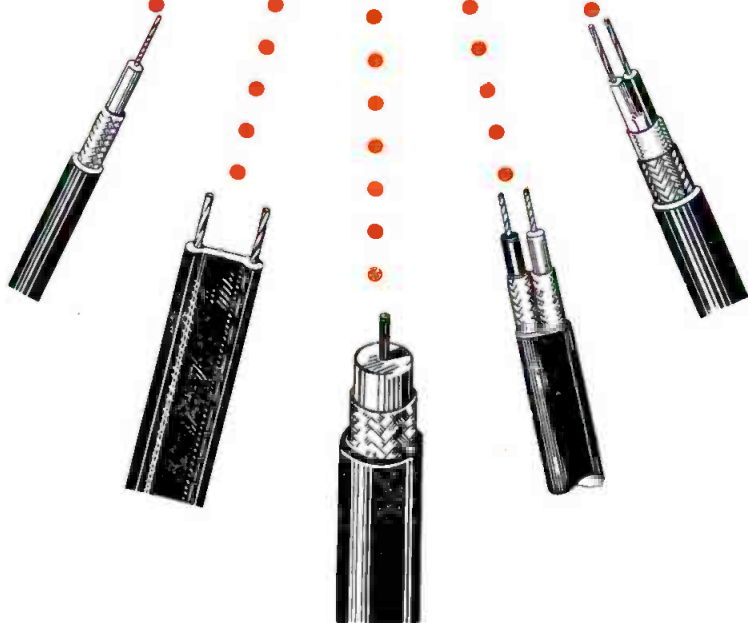


Photoelectric Control
provides automatic operation
of lighting circuits

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AURICON

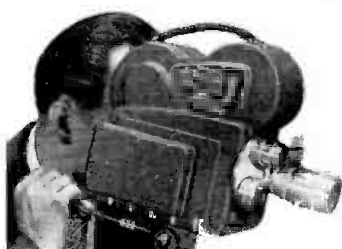
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for TELEVISION

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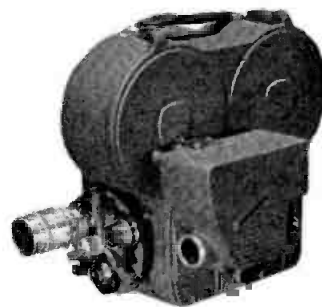
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AURICON-PRO

- ★ 200 ft. film capacity for 5½ minutes of continuous sound-on-film.
- ★ Self-blipped for quiet studio operation.
- ★ Synchronous motor for "single" or "double-system" sound-recording.
- ★ Studio Finder shows large upright image.
- ★ \$1310 (and up) with 30 day money-back Guarantee.



SUPER-1200

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- ★ Self-blipped for quiet studio operation.
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- ★ Sold with 30 day money-back Guarantee. RCA licensed sound.

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is required, use...

***BI-SEAL** the most efficient
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Here for the first time is a high frequency, self-bonding insulating tape which conforms perfectly to any contour. It is ideally suited to the solution of the ever-present maintenance problems of the Broadcast Engineer.

Use Bi-Seal for: SPLICING OUTSIDE ANTENNA CONNECTIONS . . . INSULATING FEED-THROUGHS . . . TAPING TRANSMITTER ANTENNA POSTS . . . PREVENTING ARC-OVER AND WRAPPING BARE TRANSMISSION LINES.

For reduction of "off-the-air time" have your engineer send for information and sample of Bi-Seal today.

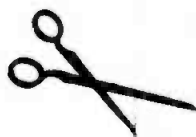


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3 ways to simplify electrical connections for TV and AM facilities...

with standard Thomas & Betts fittings



SHURE STAKE tools do the job quickly and conveniently

1. Specify T & B grounding sheath connectors for shielded conductors

Here's a neat, easy way to ground and terminate shielded or co-axial conductors. Ideal for all AF and RF applications, T & B compression-type grounding sheath connectors assure positive, uniform contact between braid strands and ground lead — without soldering . . . without damage to insulation.

Simply slip hard metal inner sleeve under conductor braid. Then, add ground lead and slip on larger soft metal sleeve. Compress with T & B SHURE STAKE and tool and the job is done! T & B grounding sheath connectors can be supplied for conductors from .058 to .297 in diameter . . . are also available with integral terminal tongues.



2. Specify T & B Sta-kon® pressure terminals for power circuits

Sta-kon terminals provide mechanically-strong, electrically-sound power cable connections in all current ranges as well as audio circuits.

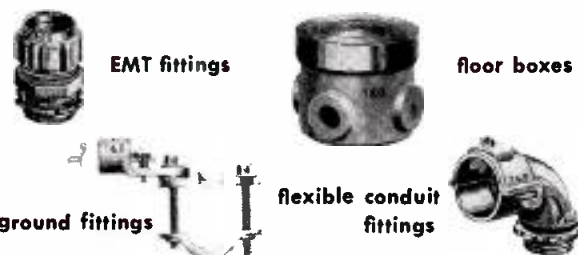
Just slide bronze Sta-kon barrel over conductor and compress with T & B SHURE STAKE tool. Staking indenter forces conductor into copper Sta-kon tongue assuring a permanent, low-resistance joint.

Sta-kon connectors are available in a variety of tongue styles for conductors from #22 to 250 MCM. Self-insulated Sta-kons can be supplied where leads are crowded or overlapped.

3. Specify T & B construction fittings for conventional electrical systems

Lighting, power, and inter-com systems for your station can be installed faster and at less cost when you standardize on T & B products. There's a T & B engineered fitting designed for every connecting job . . . and designed to do it better.

Like all T & B products, they're sold only through leading electrical distributors in your area. The savings and convenience inherent in this method of distribution are an additional reason why it pays to standardize on T & B.



For free samples and engineering data,
just write: Thomas & Betts Co., 21 Butler
Street, Elizabeth 1, New Jersey

THE THOMAS & BETTS CO. INCORPORATED

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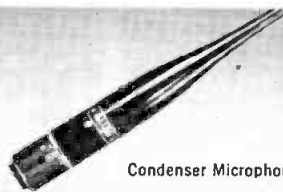
MANUFACTURERS OF ELECTRICAL FITTINGS SINCE 1898

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ALTEC=AUDIO

For audio equipment, smart broadcasters place their confidence in the Altec Lansing Corporation. Experience has shown that Altec equipment is always better; its quality unsurpassed; and its dependability beyond expectations. Altec equipment is designed to work together, without extra matching transformers or other expensive adaptations. Whether it is the new 601A Duplex monitor speaker or a complete speech input installation, you'll find Altec audio equipment will do the job better, longer, more economically.



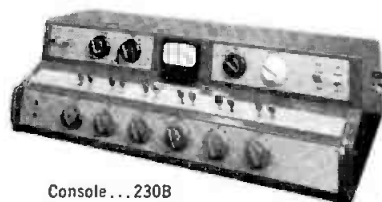
Condenser Microphone... 21B



Directional Microphone... 639



Utility Microphone... 633



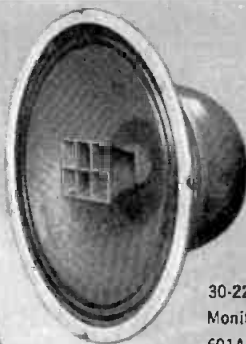
Console... 230B



Portable Mixer... 220A

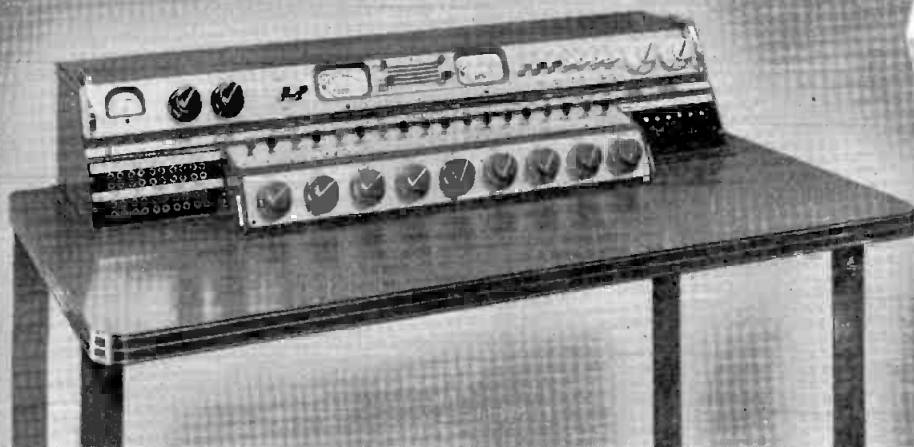


Limiter Amplifier... A-332C



30-22,000 cycle
Monitor Speaker...
601A

Plug-in Preamplifier... A-428A

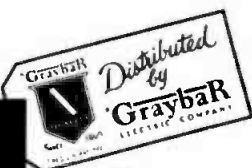


250A Console. This beautiful master console represents a new quality standard for speech input equipment. Like all Altec consoles and mixers, its frequency response, noise level and low distortion more than meet the most

stringent broadcast requirements. It is compact and completely self-contained, without external power supplies or junction boxes. All amplifiers and power supplies are precision-engineered miniature plug-in units.

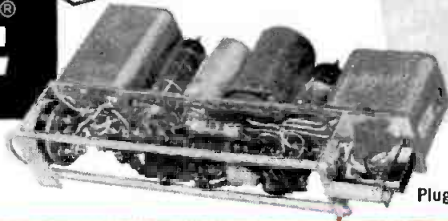
Ask our distributor or write direct for complete information on any item of Altec audio equipment.

ALTEC
LANSING CORPORATION



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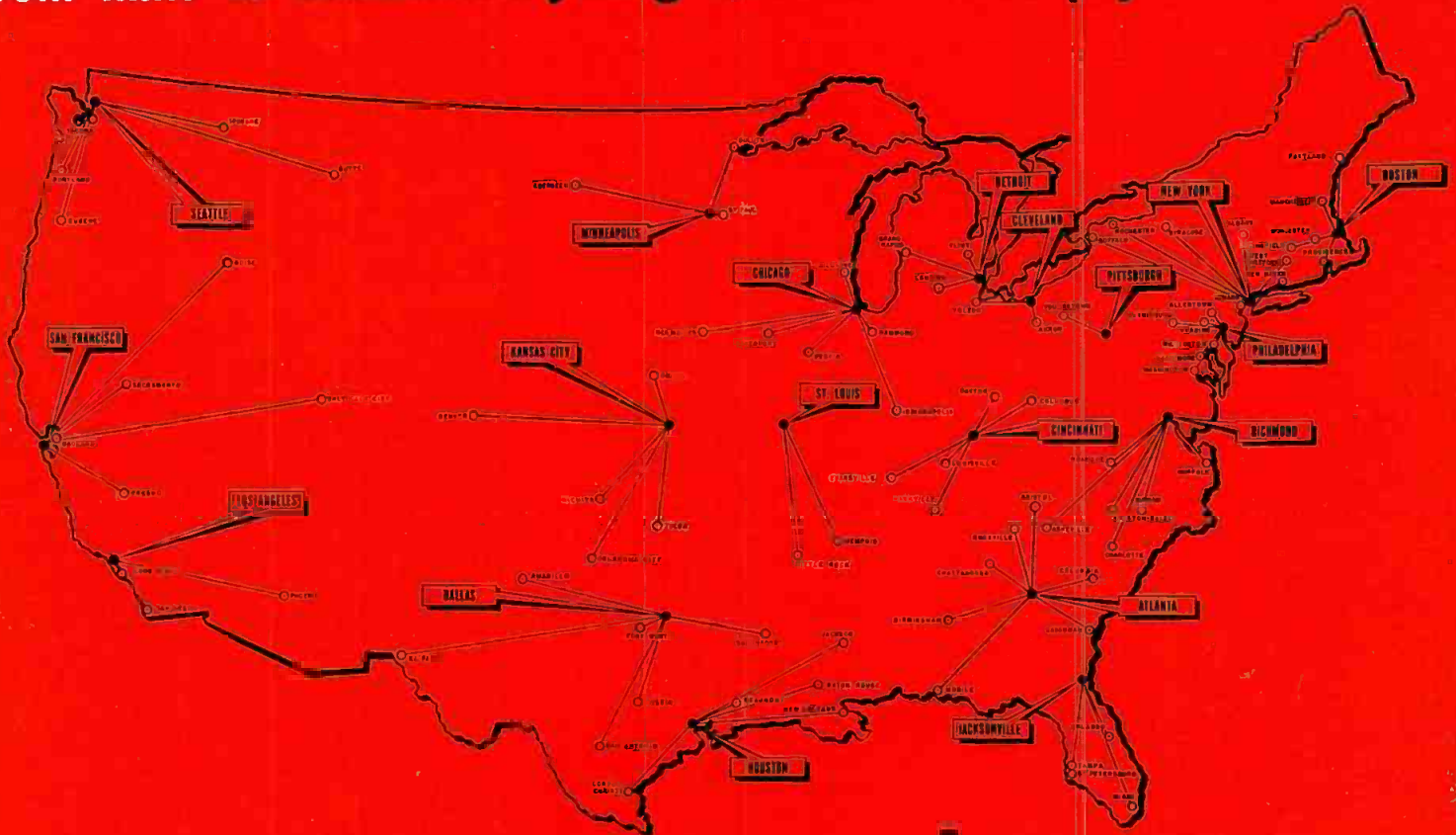
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From mike to tower...everything electrical to keep you on the air



Graybar has everything you need in broadcast equipment... PLUS everything for wiring, ventilating, signaling and lighting your entire station and grounds.

For complete information on any of the items described on the previous pages, consult your nearest Graybar Broadcast Equipment Representative. You'll find him well-qualified to assist you in every phase of station planning or expansion as well as modernization of existing transmitter and studio facilities.

The names and locations of Graybar Broadcast Equipment Representatives are listed below:

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DALLAS
C. C. Ross, Randolph 6454

DETROIT
P. L. Gundy, Temple 1-5500

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R. T. Asbury, Atwood 4571

JACKSONVILLE
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ST. LOUIS
J. P. Lenkerd, Newstead 4700

KANSAS CITY, MO.
R. B. Uhrig, Baltimore 1644

LOS ANGELES
R. B. Thompson, Angelus 3-7283

MINNEAPOLIS
C. W. Greer, Geneva 1621

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R. W. Griffiths, Exeter 2-2000

PHILADELPHIA
J. W. Crockett, Walnut 2-5405

PITTSBURGH
R. F. Grossett, Allegheny 1-4100

RICHMOND
E. C. Toms, Richmond 7-3491

SAN FRANCISCO
K. G. Morrison, Market 1-5131

SEATTLE
D. I. Craig, Mutual 0123

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tron • Minnesota Mining • Mole-Richard-
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Equipment • Towers • Tower and Studio
Lighting Equipment • Transmission Line
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