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.

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 2½" compared with the 1¾" diameter of standard 7" reels. Thus it has approximately the same ratio of outside diameter to hub diameter as the standard NARTB 10½" 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 ½ db at 1000 cps within the reel, and less than plus or minus ¾ db from reel to reel.

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

via Graybar
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 cabinet features found in larger equipments. An aluminum cabinet of special, unified, streamlined 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.
These are the reasons why Daven is the leader in the audio attenuator field.

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

Everything electrical for TV or AM... via Graybar
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
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....

Graybar
...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 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!
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.
8 reasons why engineers everywhere select PRESTO above all others

TAPE RECORDERS

PRESTO RACK MOUNTED RC-10/24

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 7½/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.

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 33⅓ 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 oneterm 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, 78s, 45s, 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. Downs, Ltd., Dominion Square Bldg., Montreal

WORLD’S LARGEST MANUFACTURER OF PRECISION RECORDING EQUIPMENT AND DISCS

EVERYTHING ELECTRICAL FOR TV OR AM... via Graybar
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 produced 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 availability made possible by Graybar's widespread distribution system, guarantees Graybar's pledge "to keep you on the air."
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... via Graybar
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.

FOR FURTHER PARTICULARS, WRITE FOR OUR BULLETIN 552
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 overmodulation 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 dial.

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
Hubbellock

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.

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.

They never disconnect accidentally!

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...
**SELF LOCKING CONNECTORS**

**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**

- **CAPACITY 15 AMP.**
- **CONTACTS SILVER PLATED INSULATION — NYLON**

**TYPE "A" HOOK STANDARD**

- **CAPACITY 10 AMPS.**
- **130A94-6 TERMINAL STRIP**

**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-betweens". Life expectancy exceeds service requirements.

**VIBRATION PROOF** 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.

**HAMMERLOW CONTACT** Contact is made on protected underside of jack contact. Spring-loaded hammerlow 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

**HARVEY HUBBELL, INC.**
**BRIDGEPORT, CONNECTICUT**
Dept. "G"

---

**EVERYTHING ELECTRICAL FOR TV OR AM...**

---
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.

Send for your copy of this helpful bulletin today.
PWC produces Microphone Cords, Coaxial Cables, and Antenna Lead-In Cables tailored for your needs by the experienced PWC Research and Development Department.

For the Broadcasting Field the highest standards are met in PWC products ranging from Hook-up Wires to complex Flexible Power, Communication and Control Cables.

Specially designed Harness Assemblies and Cord Sets to meet the most exacting requirements are also produced by PWC.

We welcome your inquiries for special or standard wiring materials.
Auricon 16mm Sound-On-Film Cameras provide ideal working tools for the production of Television Newsreels, film commercials, dramatic inserts and local candid-camera programming. Ask our distributor or write direct for free illustrated catalog.

CINE-VOICE

Photograph a sound track along one edge of your picture film with the Auricon “Cine-Voice” 16mm Camera. Same film cost as old-fashioned silent movies! Edit your own talking pictures on any make of 16mm sound projector.

$695.00 (and up)
With 30 day money-back Guarantee

SUPER-1200

★ Two independent Finder Systems plus instant Ground-Glass Focusing through the Camera lens.
★ Self-blimped for quiet studio operation.
★ 1200 foot film capacity for 33 minutes of continuous recording.
★ Variable Shutter for fades or exposure control.
★ $4315.65 complete for 16mm sound-on-film...lenses additional. Also available without sound for $3377.90.
★ Sold with 30 day money-back Guarantee. RCA licensed sound.

BERNDT-BACH, INC.
7365 BEVERLY BLVD., LOS ANGELES 36, CALIF.

AURICON-PRO

★ 200 ft. film capacity for 5½ minutes of continuous sound-on-film.
★ Self-blimped 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.

AURICONSince 1931

EVERYTHING ELECTRICAL FOR TV OR AM... via Graybar
where high frequency and high voltage insulation is required, use...

*BI-SEAL* the most efficient self-bonding insulating tape for:
- CORONA RESISTANCE
- HIGH-ARC PREVENTION
- MOISTURE SEALING
- EXTREME TEMPERATURE RANGES

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.

**OTHER ADVANTAGES OF BI-SEAL**
- NO STICKY ADHESIVES . . . EASIER TO APPLY IN CLOSE CLEARANCES
- NO RIGHT OR WRONG SIDE . . . BOTH SIDES USABLE
- NO TACKY SURFACE TO PICK UP DUST OR FOREIGN MATTER
- WILL NOT TANGLE OR STICK TOGETHER DURING APPLICATION
- REQUIRES NO SPECIAL APPLICATION TECHNIQUES
- CAN BE STORED INDEFINITELY

Attach this coupon to your company letterhead and mail to: Bishop Manufacturing Corporation, Dept. BT, Cedar Grove, N. J. Please send sample and complete information on Bi-Seal to:

Name ___________________________ Title ___________________________
Company _______________________________________________________
Address _______________________________________________________
City __________________________ Zone ______ State __________________

**EVERYTHING ELECTRICAL FOR TV OR AM...**

---

POLYETHYLENE BASED COMPOUND
PAT. NO. 2369540. REG. TRADE MARK

BISHOP MANUFACTURING CORPORATION
CEDAR GROVE, NEW JERSEY
3 ways to simplify electrical connections for TV and AM facilities...

with standard Thomas & Betts fittings

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

Here's a neat, easy way to ground and terminate shielded or coaxial 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 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 indentor 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
Thomas and Betts, Ltd. Montreal, P.Q. Canada
MANUFACTURERS OF ELECTRICAL FITTINGS SINCE 1898

EVERYTHING ELECTRICAL FOR TV OR AM...
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.

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.
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:

**ATLANTA**
E. W. Stone, Cypress 1751

**BOSTON**
J. P. Lynch, Kenmore 6-4567

**CHICAGO**
E. H. Taylor, Canal 6-4100

**CINCINNATI**
W. H. Hansher, Main 0600

**CLEVELAND**
A. C. Schwager, Cherry 1-1360

**DALLAS**
C. C. Ross, Randolph 6454

**DETROIT**
P. L. Gundy, Temple 1-5500

**HOUSTON**
R. T. Asbury, Atwood 4571

**JACKSONVILLE**
W. C. Winfree, Jacksonville 6-7611

**KANSAS CITY, MO.**
R. B. Uhlig, Baltimore 1644

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

**MINNEAPOLIS**
C. W. Greer, Geneva 1621

**NEW YORK**
R. W. Griffiths, Exeter 2-2000

**PHILADELPHIA**
J. W. Crockett, Walnut 2-5405

**PITTSBURGH**
R. F. Grosett, Allegheny 1-4100

**RICHMOND**
E. C. Toms, Richmond 7-3491

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

**SEATTLE**
D. I. Craig, Mutual 0123

**ST. LOUIS**
J. P. Lankerd, Newstead 4700

A few of Our Leading Supplier-Manufacturers — Altec Lansing • Ampex • Berndt-Bach • Bishop • Blaw-Knox • Cannon • Century Lighting • Communication Products • Continental Electronics • Crouse-Hinds • Daven • Fairechild • General Electric • General Radio • Houston Fearless • Hubbell • Karp Metal • Kliegl • James Knights • Machtett • Moletron • Minnesota Mining • Mole-Richardson • Plastic Wire & Cable • Presto • Rek-O-Kut • Sarvis • Simplex • Standard Electronics • Tung-Sol • Webster • Western Electric • Zoomar

Everything Electrical for Broadcasting-Telecasting — Amplifiers • Antennas • Consoles • Frequency and Modulation Monitors, Test Equipment • Loudspeakers and Accessories • Microphones and Accessories • Recorders and Accessories • Speech Input Equipment • Towers • Tower and Studio Lighting Equipment • Transmission Line and Accessories • Transmitters, AM and TV • Tubes • Turntables, Reproducers, and Accessories • TV Cameras and Film Equipment • Video and Audio Monitors • Wiring Supplies and Devices

**via Graybar**

...in over 100 principal cities