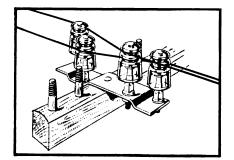


NUMBER TS-23 - Designed for carrier circuit use on all "point" type transposition hardware and at intervening non-transposition poles.

HEMINGRAY INSULATORS

Easily and Economically Installed

Hemingray Glass Insulators stand up under severe conditions, do not deteriorate, provide the service you need to assure continuous operation of communication lines. The dependability of Hemingray Insulators as proved by years of fine performance is one of the reasons behind their world-wide acceptance.



Hemingray has pioneered many insulator developments to keep pace with requirements, improve communication systems, assure you a dependable source of supply.

An up to date distribution system makes Hemingray Insulators available when you want them and where you need them.

Hemingray Glass Insulators are a product of Kimble Glass Company, subsidiary of Owens-Illinois, Toledo 1, Ohio.

This carrier circuit transposition developed by the Bell System takes only the crossarm width of one conventional pin.

World standard for quality Since 1870

HEMINGRAY INSULATORS AN () PRODUCT



News Briefs

COMMUNICATION AND SI NAL SECTION, AAR. R. M. Lau enson, superintendent of communications, St. Louis-San Francisco, ha been named chairman of Committe 7—Inside Plant, succeeding Allen Fox. H. N. Wasserman, superinte dent of communications, New Yo Central, Detroit, has been named via chairman. The annual meeting of the Section will be held in the Royal Yo Hotel, Toronto, Ont., October 2-4.

FEDERAL COMMUNICA TIONS COMMISSION, in its Jul the carriers of their competitive ser vices; (b) insure to the ratepayers th benefits of competitive service offer ings in the form of the rates indicate by lower costs of either carrier; and (c) make intercity channel rates mor consistent with costs of furnishing such facilities. A revised and simplified telegraph channel rate structure i being prescribed more in line with th existing telephone rate structure an more in keeping with the current stat of the art of furnishing private lin services."

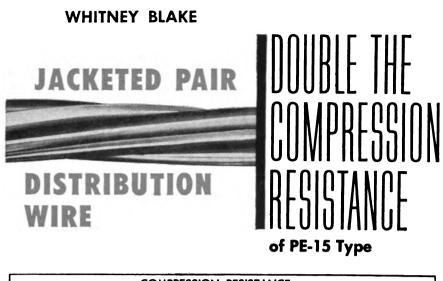
According to *Telecommunication Reports*, the FCC rejected the American Telephone & Telegraph Co.³ multiple channel tariff on finding that there are no significant cost differences, or bases for concluding that the multichannel rates were reasonably designed to meet competition from private microwave systems of "substantially stimulate" private line use.

After concluding that "there are no significant reductions in costs associated with the volume rates" under the multichannel tariff, the FCC commented that it would consider whether the rates "are reasonably designed to meet competition from privately owned microwave systems and to stimulate the usage of AT&Ts private line services." It stressed that there was no evidence of record as to costs of private microwave systems and that as a result there was no way to compare such costs with the multichannel rates.

"There are no significant differences in the carriers' costs or other circumstances or conditions of service warranting the differences between the (Please turn to page 42)

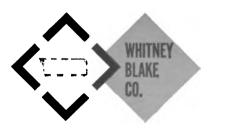
RAILWAY SIGNALING and COMMUNICATIONS

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	COMPRESSION RESISTANCE					
						.140
DISTRIBUTION WIRE						.130
JACKETED-PAIR MULTI-PAIR CONSTRUCTION						.120
						110
REA PE-15 (MARCH 1960)						100
		I				090
		₋				080
						070
			_			.060
	FRACTU		ACTIVITY			050
						.040
						.030
				•		.020
						.010
						.000
2000 1800	1600 1400 1	200 1000 POUNDS	800 e	00 400	200	0

In order to demonstrate the extreme mechanical toughness of the JACKETED-PAIR wire, and to obtain a measure of the mechanical handling capabilities, samples of JACKETED-PAIR and the PE-15 construction were subjected to a compression-resistance test. The PE-15 type withstood an average of 525 pounds before the insulation was crushed to the failure point while the JACKETED-PAIR required an average crushing pressure of 1080 pounds. Thus, the JACKETED-PAIR has more than twice the compression resistance of the PE-15 type multi-pair distribution wire.



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NEWS BRIEFS

(Continued from page 40)

regular private line rates and multiple channel rates. Thus, AT has not justified differences in cha between large and small volume u for a like communications service tween the same points," the C mission stated.

NEW YORK CITY TRAN AUTHORITY has placed in ser during the past three years more 3,000 wood laminate insulated joints made by Permali, Inc. NYO reports that these joints have fi tioned without a failure attribute their operation.

TERMINAL EQUIPMENT u in connection with Schedule 5 d transmission channels may be provi by either the customer or the teleph company, under terms of a to amendment filed with the FCC. AT&T and to become effective Au 2. At present, terminal equipm must be furnished by the phone of pany.

FEDERAL COMMUNICATIO COMMISSION has proposed r making which would formally private microwave systems on a r interference basis, by specifying t the assignment of frequencies ab 952 mc in the marine, aviation, pul safety, industrial and land transpotion services would be on a "show that harmful interference will not caused to existing stations," accord to *Telecommunications Reports*.

WESTERN PACIFIC orde from Union Switch & Signal C equipment for installation on 23 m of mainline between Oroville Portola, Calif., in connection with line relocation due to construction the Oroville Dam project by the su

ALTON & SOUTHERN will a struct an automatic classification v in East St. Louis, Ill., at a cost of abo \$5 million. Construction is expected if begin late this year and require about 18 months for completion. The new yard, which will have 32 classification tracks, is expected to increase in A&S's peak load capacity of 2,000 cm by at least 50%.

ERIE-LACKAWANNA has been construction of its \$7.5 million aux matic retarder classification yard Buffalo, N. Y. Communications will clude radio, loudspeakers, televism dial telephones and teletype. See nal equipment will be supplied by Gre-(Please turn to page 40)

RAILWAY SIGNALING and COMMUNICATION

NEWS BRIEFS

(Continued from page 42)

eral Railway Signal Co., costing about \$2 million.

LOUISVILLE & NASHVILLE will install hotbox detectors at six locations. The automatic alarm feature will set signals to stop trains with hotboxes. Estimated cost is \$232,458.

LIGHTING LEVELS. A section of the official Lighting Handbook of the Illuminating Engineering Society, showing the minimum recommended levels of illumination, has been newly



Rails Co. SNOW DETECTOR DETECTS

SNOW, FREEZING RAIN, HAIL OR ICE. Instantly puts gas or electric switch heaters into action! Even detects snow due to passing trains or drifting — by track mounted Sensing Head. Full details in our Bulletin. Please request it.

- ELECTRIC POWER AVAILABLE? Snow Detector installed with dependable Rails Co. Electric Switch Heater, Tubular or Plate Type, gives high efficiency with less power needed. Maximum heat radiation plus uniform heat distribution assures safe, sure use. Available for any size switch point.
- SWITCH ROD HEATER (ELECTRIC) PROTECTS SWITCH RODS from freeze-ups; eliminates tie-ups. Installs in troublesome tie spaces on any type switch; applies heat where needed.
- RAIL-TEL GAS HEATERS PROVIDE QUICK ACTION at interlocking or remote points — with automatic ignition. Delivers heat in severest weather (using propane, natural or city gas).



reprinted. The 16-page booklet is available for 20 cents a copy. Illuminating Engineering Society, Dept. RSC, 1860 Broadway, New York 23, N. Y.

HOT BEARING DETECTOR. Union Development sheet No. 296, Hot Bearing Detector System, dated September 1960, has just been released. The 12-page folder describes the various components that make up the detector system. Union Switch and Signal, Dept. RSC, Swissvale, Pa.

WAVEGUIDE CHART. A quick informational waveguide cross ref-

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erence chart, "Reference Table Rigid Rectangular Waveguide Da and Fittings," is available. This cha covers all standard EIA waveguid between WR10 and WR2300 and in cludes electrical performance, m chanical dimensions, standard JA flange references and a cross referenbetween WR and RG number Microwave Development Labor tories, Inc., Dept. RSC, 15 Strathmo Road, Natick, Mass.

EDUCATION. Two new Ride training manuals are available: "Fu damentals of UHF," No. 217, an "Basic Mathematics Vol. 2," No 268-2. The UHF book covers the spectrum from 300 to 3,000 mc, stop ping short of the microwave area. The math book runs from algebra prote lems, through basic geometry, endine with early trigonometry. Both book make abundant use of illustration John F. Rider Publisher, Inc., Dep RSC, 116 West 14th St., New Yor 11, N. Y.

Railroad Personnel

CHESAPEAKE & OHIO. As re ported in the July issue of Railway Signaling and Communications, The dore L. Carlson has been appointed general superintendent signals an communications, at Richmond. Va Mr. Carlson was born in Litchfield Minn., December 16, 1902. He begat his railroad career in 1923 as a signa construction worker on the Great Northern. From 1928 to 1929 he wa with the Norfolk & Western as a signal draftsman. He came to the C&O in 1929 as a signal circuit designer and has served as chief circuit designer circuit engineer, signal engineer. sistant superintendent signals, and from 1955 until his new assignment superintendent of signals at Rich mond.

WESTERN PACIFIC. W. J. Halam has been promoted to signal supervisor at Sacramento, Calif., succeeding L. B. Carter, retired.

CANADIAN NATIONAL. Ha announced the following appoint ments: L. V. Lockhart, signal enginer of the St. Lawrence Region, with headquarters at Montreal; R. Perrum, radio systems engineer and A Piechota, assistant general radio ensineer, CN Telecommunications. Toronto, Ont.

LONG ISLAND. C. Meyers he been named deputy chief engines signals and electric traction. E. K. St-Clair, assistant to the chief engines has succeeded Mr. Meyers as assistant (Please turn to page 49)

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NEWS BRIEFS

(Continued from page 44)

chief engineer, signals and electric traction.

GREAT NORTHERN. Allen H. Fox, engineer of communications at St. Paul, retired July 1. Mr. Fox was born in Minneapolis, Minn., November 28, 1895. He entered the employ of the GN in 1920 as a draftsman in the telegraph department. In 1941 he was appointed assistant superintendent of telegraph, becoming superin-tendent of telegraph in 1952. His title was later changed to superintendent of communications and in 1957 he was made engineer of communications.

Supply Trade News

GENERAL RAILWAY SIGNAL CO. and a Netherlands subsidiary of International Telephone & Telegraph Corp. have formed a new company,

SIGNALING COMMUNICATIONS

to see stopped. It is the demotion of importance of signaling and comthe signal and communications de- munications. Dig out your March partments. I will accept nothing less issues and pass page 51 up to the top. than full departmental status for signaling and communications, that is, gether we can make some headway. on a par with engineering, mechanical, traffic, accounting and the rest. Why this should be, was explained in a March Editor's Corner, page 50. Recent talks with railroad men, plus a strong rumor that a large railroad is going to combine signal and communications departments and put them under the chief engineer, cause me to burst forth in print.

Taking the same 40 railroads studied in March, the following is developed concerning voting representatives in the old separate Communica-tions Section and Signal Section, and the new Communication and Signal Section. Communications Section voting representation was like this: 17 communications superintendents, 18 superintendents C&S, 1 chief engineer and 4 vice-presidents-operation. Signal Section voting representatives were as follows: 22 signal engineers and 18 superintendents S&C. In the new Communication and Signal Section voting breaks down this way: 2 communications superintendents, 12 signal engineers, 17 superintendents S&C, 3 chief engineers, and 6 vicepresidents-operation.

departmental status. We've got to

46

Algemene Sein Industrie, N.V., The Hague, Netherlands, to manufacture and market railway signaling and electronic control systems and devices.

AMERICAN BRAKE SHOE CO. Raymond A. Frick has been elected vice-president and named group executive and division president for railroad products.

COLLINS RADIO CO. Has opened a new regional area office for the sale of microwave communications systems at Nashville, Tenn., in charge is W. T. Allott.

NATIONAL CARBON CO. Morgan Henika, sales engineer at Erie, Pa., has been named eastern division sales manager of brush and railroad products at New York.

UNION SWITCH & SIGNAL DI-VISION. Leland G. Phillips has been appointed sales engineer, with headquarters in Chicago. After graduating

Editor's Corner

There is a trend that I would like sell top railroad managements on the

Also write me your comments, to-

Do Congressmen answer their mail? Yes! I wrote to 32 Democrats and 19 Republicans asking them to vote against S. 1197, S. 1089 and H.R. 5937-bills that would limit ratemaking freedom of the railroads. I received replies from 6 Democrats and 11 Republicans. Interestingly seven of the replies were personal letters, and 10 replies were form letters, two of which contained fact sheets about the bills. From my New York Senators and Representative I received two personal letters and two form letters.

Railroad men might well write their Congressmen asking them to support S. 658, which would allow railroads receiving local tax relief to take the amount of relief as a business deduction when calculating their federal income taxes. Another bill, S. 1370, would shorten depreciation time of railroad plant and equip-ment to 15 years. This bill also deserves your support.

Again I feel that this is a weaken-ing of signaling and communications



Allen H. Fox

Leland G. Phillips

from high school in 1946, he furthere his education by completing corre spondence courses in electrical theor and electronics. All of Mr. Phillip working experience has been with the signaling forces of the Milwauke Road, his first assignment being as signal maintainer at Laredo, Mo. 1946. In January 1955 he was pro moted to signal draftsman at Chicago and in September of that year to as sistant engineer signals. In 1957 h became a signal inspector, the position he held at the time he accepted em ployment with US&S.

Obituary

JAMES C. MOCK, 95, who retired as signal and electrical engineer of the Michigan Central in 1937, died at hi home in Detroit on July 7. Mr. Mod was born on June 1, 1866, at Kyler town, Pa. Upon graduation from Pennsylvania State College in 1890 he entered the service of Union Switch & Signal Co. as construction foreman and designer. Six months later he as sisted in the installation of the first electro-pneumatic interlocking, on the Pennsylvania at Jersey City Terminal For the next 10 years he was em ployed on automatic block signaling and electro-pneumatic interlockin projects on the Pennsylvania, Ner York Central, Michigan Central Lackawanna, and Jersey Central. I 1901 Mr. Mock was appointed sig nal engineer of the Michigan Centra (now New York Central). At that time the MC was one of the few roads in America that had a signal engineer. In 1906 he was appointed electrical engineer of the Detroit River Tunne Co. After completion of the tunne construction in 1912 he returned t the MC as signal and electrical eng neer. Mr. Mock was active in assocition work and was president of t Railway Signal Association in 19 and 1905.

LEE DE FOREST, 87, radio pie neer and inventor of the three-element audion tube, died June 30. Doctor Forest was granted more than 3 American and foreign patents, inch ing one in 1957 for an automatic di ing device for telephones.

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