

UNCLASSIFIED

AD 297 355

*Reproduced
by the*

**ARMED SERVICES TECHNICAL INFORMATION AGENCY
ARLINGTON HALL STATION
ARLINGTON 12, VIRGINIA**



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

63-2-5

AID Report P-63-16

CATALOGED BY ASTIA
AS AD NO 297355
January 1963

297 355

COMMUNICATIONS NETWORKS

PART II

Designations and Abbreviations

Work Assignment No. 33

Aerospace Information Division
Library of Congress



COMMUNICATIONS NETWORKS

PART II

Designations and Abbreviations

Work Assignment No. 33

The publication of this report does not constitute approval by any U. S. Government organization of the inferences, findings, and conclusions contained herein. It is published solely for the exchange and stimulation of ideas.

Aerospace Information Division
Library of Congress

FOREWORD

This is the second report published in response to Work Assignment No. 33 under the title Communications Networks, Part II. Designations and Abbreviations. The first report under this title was published as AID Report 62-93. One report, AID Report 62-92, has been published under the title Communications Networks, Part I. Review of Soviet Literature, and a second report under this title is being issued as AID Report P-63-15.

Bracketed numbers or letters following letter designations refer to types of the basic model. For example, the entry APC-[1,2] refers to two separate pieces of equipment: the APC-1 and APC-2 transceivers.

"A"	"A"	Priyemno-peredayushchaya telefonno-telegrafnaya simplekhnaya radiostantsiya tipa A	Type "A" telephone-telegraph radio transceiver for simplex operation. Maximum transmitting power, 22-25 w in telegraph operation; 10-12 w in telephone operation. Frequency band, 3800-5800 kc. Range maximum, 250 km. It uses a superheterodyne receiver.
A4-M2	A4-M2	Lampovyy vol'tmetr	Vacuum-tube voltmeter. 0.1 - 1000 v
A-7A	A-7A	Ul'trakorotkovolnovaya radiostantsiya	Ultrashort-wave radio set (river fleet communication)
A-7B	A-7B	Ul'trakorotkovolnovaya radiostantsiya	Ultrashort-wave radio set (fleet communication)
AB-1-0/230	AB-1-0/230	Agregat, benzoelektricheskiy, moshchnost'yu 1 kvt, odnofaznogo toka 230 v napryazheniyem	Single-phase 50 cps gasoline power plant. Rated power, 1 kw. Rated voltage, 230 v. Weight, 73 kg
ABK-1	AVK-1	Apparatura vykhodnoy komutatsii (provodnogo veshchaniya) - 1	Rediffusion-system output switching equipment. The equipment is designed for distributing the output power from three TY-5 a-f amplifiers between 10 distribution feeders, two feeders for street public-address systems, two rural-type high-voltage feeders, and two derived channel equipment bays.

ABO-III и ABO-II	AVO-III and AVO-II	Apparatura veshchaniya okonechnaya - po stroyennym i sdvoyennym telefontnym kanalam	Apparatus for wire broadcasting using three or two telephone channels
ABYA-2	AVUD-2	Apparatura veshchaniya, ulichnaya distantsionnaya	Remote-control equipment for switching on speakers of street public-address systems. The equipment consists of two blocks: 1) a control block (ABYA-2K), which is placed in the re- diffusion station for sending the 5000-cps control signal to the 2) acting block (ABYA-2M), which is placed near a loud- speaker for switching the loudspeaker
AVM	AIM	Amplitudno-impul'snaya modulyatsiya	Pulse-amplitude modulation
APC-[1,2]	ARS-[1,2]	Avtomobil'naya radiostantsiya - [1,2]	Mobile-service single-frequency FM transceiver for simplex and semiduplex communication with the APC-[1,2] sets. Antenna power, 8 w. Frequency band, 36-46 Mc. Range coverage, max 30 km
APTA-50	ARTA-50	Avtomatizirovannyi stroyennyy telegrafnyy (start-stopnyy) apparat	The 1950-model page tele- typewriter. Special features of the apparatus are the typing reperforator for processing

transit telegrams and the use of a perforator attachment in the receiver as a reperforator. The apparatus has an automatic start-stop switch and an answer-back unit. Total unit intervals per character, 7.42. Speed, 47.2 baud and 53.2 baud. Words per hour (8.5 letters), 2696 and 3035. Time per signal element, 21.2 and 18.8 millisecc

Fixed-frequency transmitter for ship emergency communication frequencies: 512, 500, 480, 468, 454, 425, 410. Minimum antenna power, 0.06 kw. Range, about 200 km. Power supply, 28 v. Storage battery of 200 amp-hour capacity

Automatic sub-exchanges for 100 subscribers with 60 junction circuits. Former designation: ATA - 50. For automatic hunting, the АММ-10 hundred-joint step-by-step selector is used. Max. current consumption is 20 a at +60 v with grounded middle point. Capacity of the exchange can be increased up to 300 subscribers.

АСП-2-0.06

ASP-2-0.06

Avariynaya svyaz, pere-datchik-2-0.06

ATA-100/60

ATA-100/60

Abonentskaya telegraf-naya avtomaticheskaya stantsiya-na 100 abonentov i 60 kanalov

ATP-10/20	ATR - 10/20	Abonentskaya telegrafnaya ruchnaya stantsiya - na 10-20 abonentov	Subscriber's manually oper- ated telegraph-exchange switchboard with capacity of 10-20 subscribers. Maximum current consumption is 3a at \pm 60 v with grounded middle point.
ATC-20M	ATS - 20M	Avtomaticheskaya tele- fonnaya stantsiya - na 20 nomerov, moderniziro- vannaya	Dial relay exchange for 20 numbers. Improved version of ATC-20.
ATC-50/100	ATS - 50/100	Avtomaticheskaya tele- fonnaya stantsiya dekoidno-shagovoy sis- temy na 50/100 nomerov	Step-by-step telephone ex- change for 50 - 100 telephone numbers.
ATC-BPC-20	ATS-VRS - 20	Avtomaticheskaya tele- fonnaya stantsiya vnutrirayonnoy svyazi na 20 nomerov	Relay type rayon-wide dial exchange for 20 numbers.
ATC K 100/2000	ATS K 100/2000	Avtomaticheskaya tele- stantsiya, koordinat- naya na 100/2000 nomerov	Crossbar-type telephone exchange for 100/2000 num- bers. For use in system of the Local Agriculture Board

"B"

Priyemno-peredayushchaya
telefonno-telegrafnaya
simpleksnaya radiostan-
tsiya tipa V

V-type telegraph-telephone
transceiver for simplex
operations. Antenna power,
15 w in telegraph operations
and 5 w in telephone oper-
ations; frequency band,
3,000 - 7,000 kc; range, up
to 200 km; superheterodyne
receiver. Manually driven
generators or dry battery
are used as power supply.

B-12

Vysokochastotnaya 12
kanal'naya apparatura
uplotneniya

The 12-channel telephone
carrier system for non-
ferrous open-wire lines.
Channel frequency, band
0.3-3.4 kc. It has four
carrier-frequency variants
in the frequency ranges
36-84 kc and 92-143 kc.
The same pilot frequencies
(40, 80, 92, and 193 kc) are
used for all four variants.
Distance between repeaters
80-120 km. Max. attenuation
compensated by the system
is 9 nepers. Voice-fre-
quency calling system is
similar to the calling system of
the B-3 multiplexing system

V-12

B-12-2

Vysokochastotnaya 12
kanal'naya uplotnyayu-
shchaya sistema-2

The 12-channel carrier
system for nonferrous open-
wire lines. This is a new
version of the B-12 system
with modifications being
made in the circuits of some

V-12-2

units, overall dimensions, and outside constructional features. Four channels can be separated from each repeater.

ВММ	ВИМ	Vremya-impul'snaya modulyatsiya	Pulse-time modulation
ВКЗО	ВКЗО	Vsesoyuznyy kombinat zaochnogo obucheniya rabotnikov svyazi	All-Union Combine for Correspondence School Education of Communications Workers
"Волна"	"Volna"	Sudovoy radiopriyemnik	Ship superheterodyne radio receiver. 15 tubes for telegraph and telephone operations. Frequency band, 12 kc - 23 Mc with two discontinuities in the 60-100 kc and 600-1500 kc ranges
ВЦ	ВР	Vyzyvnoy pribor	Ringling set
ВТ-34 Типа Сименс	ВТ-34 Siemens type	Uplotnyayuschaya apparatura tonal'nogo telegrafirovaniya	Voice-frequency telegraph multiplexing system for operation along nonferrous aerial lines in the 300-3400 cps frequency band. The system has 18 channels, an AM modulation system, and a maximum speed of 50 bauds. Carrier frequency: $f_1 = 420$ cps, $f_2 = 540$ cps, and $f_{ie} = 2460$ cps; Channel bandwidth 80 cps; distortion in channel at 50 bauds does not exceed 10%

BVC-12

Auxiliary repeater for the
B-12 (12-channel) multi-
plexing system

VUS-12

Vspomogatel'naya
usilitel'naya stantsiya
na 12 kanalov

11W	1GI	Pervyy gruppovoy iskatel'	First group selector
21W	2GI	Vtoroy gruppovoy iskatel'	Second group selector
11W	GI	Generator kanal'nykh impul'sov	Channel pulse oscillator of the time division multi- plexing system
11PTC	GRTS	Gorodskaya radiotrans- lyatsionnaya set'	City rediffusion system
11PTC	GRTS	Gorodskaya ruchnaya telefonnaya stantsiya	City manual telephone exchange
11VMTTC	GUMTTS	Glavnoye upravleniye mezhdugorodnoy tele- grafno-telefonnoy svyazi	Main administration of long- distance telegraph-telephone communications of the Ministry of Communications, USSR.

ДЦТ	DCTS	Dvustoronnyaya gruppovaya telefonnaya svyaz'	Two-way conference system
"Дзинтарс"	"Dzintars"	Radiopriyemnik	"Amber" (Latvian name) superheterodyne high-fidelity radio receiver. 5 frequency bands.
ДП-49	DP-49	Dupleksnyy pribor - tipa 1949 goda	Double-current opposition differential duplex apparatus for CT-35 teletypewriters, 1949 model. The apparatus provides for duplex and half-duplex operation using steel-wire voice-frequency telegraph channels.
ДРТС	DRTS	Direktsiya radiotranslyatsionnoy seti	Administration of rediffusion and rayon telephone network
ДТО-2	DTO-2	Dvukhrubochnyy ostsillograf-2	Double-beam oscillograph
ДФТ	DFT	Dvukratnaya fazovaya radiotelegrafiya	Double phase-modulated radio telegraphy
ДЧТ	DCHT	Dvukhkanal'noye chastotnoye telegrafirovaniye	Double FM telegraphy
ДШИ-100	DShI-100	Dekadno-shagovyy iskatel'	Step-by-step selector

MATC-[1,2]

ZhATS-[1,2]

Zheleznodorozhnaya avto-
maticheskaya telefonnaya
stantsiya

Railroad dial exchange

ЗГП

ZGI

Zadayuschiy generator
impulsov

Pulse master oscillator
(Radio-relay time separation
multiplexing terminal
equipment)

ИВ-1	IV-1	Прибор избирател'ного вызова	Selective ringing attachment used in the IC-25 radio set
ИИ-57	II-57	Modernizirovannyy pribor izmereniya iskazheniy telegrafnykh posylok i ispytaniya rele	Modernized telegraph distortion meter and relay tester
ИИМ	ИИМ	Импulsno-kodovaya modulyatsiya	Pulse-code modulation
ИКТНОУ	ИКТНОУ	Iskhodyashchiy komplektonal'nogo nabora, odnochastotnyy uproshchennyy	Simplified-voice single-frequency ringer of the outgoing terminal bay
ИМ-12	ИМ-12	Измерител' модульцсии	Modulation meter
ИИИ-6	ИИИ-6	Измерител' nelineynykh iskazheniy	Nonlinear distortion meter
ИП-[150, 300]	ИП-[150, 300]	Измерител'nyye pul'ty dlya izmereniya kharakteristik gruppovogo trakta	Instrument desk for measuring FM and AM characteristics of the channel group. (Radio-relay lines).
ИП-150-II	ИП-150-II	Измерител'nyy pul't dlya izmereniy v trakta kh dal'ney svyazi	Measuring instrument desk for long-distance communication lines

ИПП-4	IPL-4	Iskatel' povrezhdeniy (podzemnykh) liniy	Underground cable fault detector
ИР-[7, 10, 15, 20]	IR-[7, 10, 15, 20]	Iskrovyye razryadniki (dlya vozdushnykh provod- nykh liniy svyazi)	Spark dischargers for open wire lines
ИРП-[1Zh, 2Zh, 3Zh]	IRP-[1Zh 2 Zh, 3 Zh]	Izmeritel' radiopomekh	Radio-interference meter
ИРЧ-1	IRCh-1	Izmeritel' rasstanovki chastot-1	Portable frequency-deviation meter for single- or two- channel FM telegraphy with 500 and 1000 cps deviation. Input resistance of the de- vice in a 2000-7000 cps fre- quency range is 600 ohm
ИСК-М-49	ISK-M-49	Iskhodyashchaya stoyka krossa kommutatora - M - 49	Outgoing distribution bay of the M-49 long-distance switch- board
ИТС-2	ITS-2	Izmeritel' iskazheniy telegrafnykh signalov	Telegraph-signal distortion meter
ИТУ-[1, 2, 3, 4]	ITU-[1, 2, 3, 4]	Individual'nyye tonal'- nyye usiliteli	Individual voice-frequency three-stage transistor ampli- fiers. Maximum gain at 800 cps 2.85 nep; operating frequency, 300-3400 cps. ИТУ-1 is used as a repeater on four- wire cable lines having cotton

or styroflex insulation. WTY-2 is used as a repeater on open-steel or copper-wire lines. WTY-3 is used as a repeater on copper-clad steel-wire lines or HPBIM cables. WTY-4 is used as a terminal amplifier on four-wire cable lines with cotton or styroflex insulation. WTY-5 and WTY-6 are used in auxiliary circuits utilized by service personnel.

WVY-KC

IUU-KS

Izbirateľ'nyy ukazatel' urovney

Selective power level indicator component element of the KS measuring set

K-[120,180,960]	K-[120,180,960] Apparatura uplotneniya simmetricheskikh kabel'nykh liniy na [120,180,960] kanalov	Telephone multiplexing equipment for balanced cables for 120,180, and 960 channels
K-300	K-300 Apparatura uplotneniya malogabaritnogo koaksiyal'nogo kabelya na 300 kanalov	Telephone multiplexing equipment for miniature coaxial cable for 300 channels
KB-12	KB-12 Kabel'naya vysokochastotnaya 12 kanal'naya uplotnyayushchaya apparatura	The 12-channel telephone carrier system for nonloaded balanced cables with conductors: 1.2 and 1.4 mm in MKB cable, 1.2 mm in MKCB cable, and 0.9 mm in KMB4. The KB-12 system is designed for the cable version of the B-12-2 system. Two variants of carrier frequency are used. Maximum attenuation compensated by the system at 193 Kc is 7.6 nepers. Retransmission distance, 800 km.
KBV	KBV Knopochnoye vyzvnoye ustroystvo	Pushbutton ringing device
KBV-15	KBV-15 Komandno-veshchatel'nyy radiouzel-15	Remote-control public address system for giving commands for mooring in river fleet communications

КУ-1	КИ-1	Кабелеискател' - 1	Cable detector
"Киев-2"	Киев-2	Elektrostantsiya dlya pitaniya apparatury svyazi i veshchaniya	Power unit for supplying communication and rediffusion equipment. Motorcycle single-cylinder engine 115 v, 700 w, a-c generator
КУМ	КИМ	Kodovo-impulsnaya moduliyatsiya	Pulse-code modulation
КУП	КИР	Kontrol'no-isspytatel'nyy punkt	Checking and testing (point) station. (RR communications)
КУПЗ	КИРЗ	Komplekt izmereniya perekhodnogo zatukhaniya	Cross-talk attenuation measuring set
"Корабль"	"Корабль"	Spetsial'naya ul'trakorotkovolnovaya radiostantsiya dlya morskogo flota	Merchant marine special ultrashort-wave transmitter
КРП	КРР	Kontrol'nyye radiotranslyatsionnyye punkty	Rediffusion-system monitoring points
КРУ	КРУ	Kontrol'no-registruyushchikh ustoystv, stoyka	Electronic monitoring-recording bay (Automation of telegraph communications)

ЛБВ	ЛБВ	Lampa begushchey volny	Traveling-wave tube
ЛБК-40	ЛБК-40	Lineyno-batareynyy kommutator na 40 pro-vodov	Line-battery switchboard with 40-wire capacity for telegraph office, commutator function:
			1. Connection and switching of line wires
			2. Connection and switching of telegraph sets
			3. Connection and switching of wires carrying line voltage
			4. Testing of line conductors
			5. Testing of telegraph apparatus
ЛМРС	ЛМРС	Lineynyy ispytatel' rayonnoy svyazi	Rayon [administrative region] communications line tester
ЛК	ЛК	Lineynyy kross	Line distributing frame (equipment for radio telegraph office)
ЛТ-2	ЛТ-2	Lentoprot'yazhnyy telegrafnyy mekhanizm	Telegraph-undulator tape-feed mechanism with a speed of up to 650 words per minute.
ЛТУ	ЛТУ	Lineyno-tekhnicheskyy uzel	Line-technical center (Rayon communications)

M-[49,60]	M-[49,60]	Mezhdugorodnyy kommutor [49,60]	Long-distance switchboard
M-[49,60]	M-[49,60]	Mezhdugorodnyy telefonnyy kommutator Lipa [1949, 1960 goda]	The 1949 and 1960 long-distance telephone switchboards
M3V	MZU	Magazin zatukhaniy, universal'nyy	Decade attenuation box. The box consists of 5 elements. The first two have constant attenuation of 3 nepers. The others have variable attenuation: the third, from 1 to 4 nepers in steps of 1 neper; the fourth, from 0.1 to 1 neper in steps of 0.1 neper; the fifth, from 0.01 to 0.1 nepers in steps of 0.01 neper
MRFP	MKKR	Mezhdunarodnyy konsul'tativnyy komitet po radio	International consultative committee on radio
MRRT	MKKT	Mezhdunarodnyy konsul'tativnyy komitet po telegrafii i telefonii	International consultative committee on telegraphy and telephony
MRC	MKS	Mnogokratnyy koordinatnyy soyedinitel'	Crossbar switch
MPΦ	MRP	Ministerstvo Rechnogo Flota	Ministry of the River Fleet

MT-4

MT-4

Mnogokratnaya telegrafnaya sistema-chetyrekh kanal'naya

The 4-channel carrier telegraph system for use with trunk cable lines between telegraph offices and radio centers. Carrier frequencies 900, 1200, 1620, and 1980 cps: TM-PB or TM-PPU keyers and the TVB-PP or TVB-PB amplifier-detectors for each channel are used. Pass-band for each channel, 230 cps; input and output resistance, 600 ohm; amplification of receiver amplifier, 2.7 neper

MY-1

MU-1

Mikrofonnoye ustroystvo-1

Microphone set (RR communications)

"Недра-1"	"Недра I"	Radioperedatchik (Priyemoperedatchik)	Fixed-frequency AM radio receiver 1640, 1730, 1850, 1935 kc. Range, 5 km with a 1-m rod antenna; 30 km with a 12-m rod antenna
"Нептун"	"Neptun"	Izmeritel'nyy kabel'nyy pribor	Cable tester
НИИТС	NIITS	Nauchno-issledovatel'skiy institut (gorodskoy i sel'skoy) telefonnoy svyazi	Scientific-Research Institute of Urban and Rural Telephone Communications of the Ministry of Communications, USSR
НТ	NT	Nadtonal'noye telegrafirovaniye	Supersonic telegraphy
НУС-3	NUS-3	Neobsluzhivayemaya uslritel'naya stantsiya-3	Unattended repeater station of an open-wire nonferrous line multiplexing system

OB-3	OV-3	Okonechnaya stantsiya uplotnyayushchey sistemy B-3	Terminal equipment of the V-3 telephone multiplexing system
OF2-3C	OG2-3S	Dvukhluchevoy ostsillo- graf	Double-beam cathode-ray oscillograph. Manufactured in German Democratic Republic
"Oka"	"Oka" (the Oka river)	Radioperechatnik maloy moshchnosti dlya vnutri- basseynoy svyazi na srednikh i korotkikh volnakh	Telephone-telegraph trans- mitter-receiver for remote- control simplex operation in river communications. It uses the YC-9-type super- heterodyne receiver. Trans- mitter power, 30-80 w (tele- graph) and 10-40 w (telephone); transmitter frequency 2150 - 12,000 kc and 350 - 500 kc
OLT-2	OLT-2	Ondulyator, lentochnyy telegrafnyy-2	Tape-type undulator
OPC-5	ORS-5	Odnoy bokovoy polosy radiostantsiya moshch- nost'yu 5 vatt dlya svyazey v zhivotnovod- cheskikh khozyaystvakh	The 5-w single-sideband trans- ceiver for cattle-breeding farms
OPC-30	ORS-30	Radiostantsiya moshch- nost'yu 30 vatt s odnoy bokovoy polosoy	The 30-w single-sideband trans- ceiver

ОСЛ	OSL	Obshchesignal'naya lampa	Master pilot lamp
ОЭ-7	OE-7	Ostsillograf, elektron-nyy-7	Cathode-ray oscillograph

ПАПК-0.08	PARKS-0.08	Peredvizhnaya svariynaya korotkovolnovaya radio stantsiya - 0.08	Radio telephone-telegraph receiver-transmitter set. Transmitter power, 0.03-0.08 kw in telegraph operation and 10-40 w in telephone operation. Transmitter frequency bands, 2500-12,000 kc and 250-600 kc combined with the PR-4 receiver set. Power supplied by the IC-1000 27 v d-c generator driven by the A-3/2 gasoline engine and two motor generator sets for 220 v d-c and 1500 v d-c
ПВ-3	FV-3	Promezhutochnyy usilitel' sistemy uplotneniya v-3	Repeater of the B-3 multiplexing system for nonferrous open-wire lines
ПВ-12-2	FV-12-2	Promezhutochnaya stantsiya sistemy uplotneniya v-12-2	Repeater of the B-12-2 telephone multiplexing system
ПЗ	PZ	Ploskoye zerkalo	Flat mirror (reflector) (radio-relay lines)
ПЗС-1.5	PZS-1.5	Peredvizhnaya zaryadnaya stantsiya-1.5	Mobile battery-charging station
ПР	PIR	Pribor ispytaniya rele	Relay tester
ПРВ-1	PIU-1	Proboyno-ispytatel'naya ustanovka-1 (dlya kabeley)	Cable breakdown tester

ПМЧ-2	PICh-2	Прецизионный измеритель частоты-2	Precision measuring assembly (Radio-telegraph communications)
ПК-1А	PK-1A	Передатчик, коротковолновыи, мoshchnost'yu 1 kv, avtomatizirovannyi	Automatic remote-controlled radio transmitter for FM and AM telegraphy and AM telephony. Frequency band, 2-20 mc; output power, 1-1.2 kw in telegraph operation (oblast-wide communications)
ПКП-2	PKP-2	Кабельный прибор-2	Portable cable tester
ПКЧ	PKCh	Приемник контрольный частоты	Pilot-frequency receiver (used in multichannel equipment for multiplexing open-wire lines)
ПНТ-59	PNT-59	Прибор настраиваемый телевизионных приемников типа 1959 года	The 1959 instrument for adjusting TV receiver sets.
"Попр"	"port"	"Специальная ультракоротко-волновая радиостанция для морского флота	Special marine ultrashort-wave receiver-transmitter set.
ПР-54	PR-54	Печатывающий реперфоратор-54	The 1954 typing reperforator of the ARTA-50 teletypewriter
ПРИЗМА	PRIZMA	Фототелеграфный аппарат	Facsimile set

ПРС-61	ПРС-61	Пул'т резервной связи-61	Emergency communications panel for railroad attendants on duty.
ПС	ПС	Прямые соеднения	Direct connection
РС-[1 М, 2 М]	РС-[1 М, 2 М]	Стояки постанционной связи	RR station-to-station communication bays
РСМ-М	РСМ-М	Промежуточная стойка переключений-М	Intermediate patching bay
РТ	РТ	Подтональные телеграфирование	Subaudio telegraphy
РТНОУ	РТНОУ	Приемник тонального набора, одночастотный упрощенный	Simplified voice-frequency signalization single-frequency receiver used at terminal offices
РТС-[3, 52, 59]	РТС-[3, 52, 59]	Передвижные телевизионные станции	Mobile TV transmitters
РФ	РФ	Полосовый фильтр	Bandpass filter
РФА-1	РФА-1	Пул'т, фонический аппаратный-1	Audio-frequency equipment control desk for musical and speech broadcasting studios

24P1	24R1	Radiostantsiya dlya spischikov vagonov	Portable push-to-talk f-m transceiver for Rf car checkers. Frequency range, 33-46 Mc; operational range, 2 km. The 24P1 transceiver replaces the MP-4II transceiver.
P-104AM	R-104AM	Radiostantsiya - 104AM	Automobile transceiver (military communications)
P-[105, 109, 115, 118]	R-[105, 109, 115, 118]	Radiostantsii	Transceivers (military communications)
P-350	R-350	Razryadnik - 350	Arrester
P-[400, 401, 401M, 403]	R[400, 401, 401M, 403]	Radio-releynnye stantsii	Radio relay stations (military communications)
PF	RG	Rombicheskaya gorizonttal'naya antenna	Rhombic horizontal antenna
PTI	RGD	Rombicheskaya gorizonttal'naya dvoynaya antenna	Rhombic horizontal double antenna
"Рекорд"	"Rekord"	Fototelegrafnyy apparat	Drum-type direct-recording facsimile with an ink electro-mechanical recorder. Drum diameter, 70 mm; drum length, 150 mm; speed, 120 rpm; scanning pitch, 0.2 mm; index of cooperation, 350; carrier frequency, 1900 cps

PML	RIL	Reguliruyushchaya iskusstvennaya liniya	Adjusting artificial line
PM-[24, 24/A]	RM-[24, 24/A]	Radio-releynaya mezhdunarodnaya sistema na 24 kanala.	Pulse-phase-modulation radio relay system for 24 channels (22 commercial channels, one service channel, and one channel for end synchronization). Transmission range without repeaters, up to 100 km; four repeaters can be used. Frequency range, 1900-2100 Mc. Produced by the "Budavox" factory in Hungary
PML	RPP	Rayonnyy peregovornyy punkt	Rayon long-distance telephone public call office
PC-25	RS-25	Radiostantsiya-25	Telephone-telegraph transmitter for simplex or duplex operations at 500-, 2182-, 4120-, and 6200-kc fixed frequencies. Antenna output power, 15-35 w; receiver sensitivity for telephone operation, 5 μ v; for telegraph operation, 10 μ v. The MB-1 selective calling attachment is used for connecting the transmitter to the telephone network.
PT-20	RT-20	Radiotelefonnaya stantsiya na 20 vatt	The 20-w fixed-frequency telephone-telegraph AM transmitter for ship-to-ship or ship-to-shore communications. Receiver sensitivity, 5-10 μ v;

range of operation, 40 km; frequency range, 1500-3300 kc (500 kc and 2182 kc emergency signal). (This transmitter is also known as the "YJOB")

PTA-50

RTA-50

Ralonnyy telegrafnyy apparat - tipa 1950 goda

The 1950 PTA page teletype-writer. Same as the APTA-50 apparatus, but without perforator attachment

PTA

RVD

Reservnyy telefon dispetchera

Emergency dispatcher telephone set (RR communications)

PTM

RTM

Radiotelefon, mobil'nyy

Mobile FM transceiver which is built in various versions for either one- or two-frequency duplex or simplex operation with selective, voice-frequency, or voice-calling system, in frequency ranges of 156-174, 100-130, 30-46 Mc. Transmitter output voltage, d-c: 6, 12, 26, and 110 v; a-c: 90-240 v

PTH

RTN

Radiotelefon, nosimyy (perenosnyy)

Portable FM transceiver. Transmitter output, 0.5 w; 19 direct-heated miniature tubes, 5 transistors, and 8 crystal diodes are used. Calling system is voice-frequency signal or voice. Power supplied from storage battery or a-c 127/220 v current

PTI	RTP	Radiotelefon, portativnyy	<p>Portable push-to-talk FM transceiver for communication with the PTM, PTC, and PTH units (river fleet communications). Frequency ranges are the same as in the PTM. Superminiature tubes and transistors are used. Transmitter output, 150 mw; transceiver weight, 1 kg; power supply, silver-zinc storage battery (6 v); calling system, by voice</p>
PTC	RTS	Radiotelefon, stantsionnyy	<p>FM receiver-transmitter set with remote control. It is the PTM transceiver with additional transmitter power amplifier which insures a 50-w power output. Frequency range, the same as in the PTM; calling system, selective up to 90 subscribers</p>
P0B	REB	Remontono-ekspluatatsionnaya baza	Maintenance base

CAPH	SARN	Stoyka avtomaticheskikh regulyatorov napryazheniya	Automatic voltage-regulator bay (long-distance communications equipment)
CBP-ADY	SVR-ADU	Sistema veshchaniya, rayonnaya - avtomaticheskoye distantzionnoye upravleniye	Remote-control rediffusion system for rayon-wide wire-broadcasting. For transmission of programs, an additional channel (28.7-34.7 kc frequency range) is introduced by multiplexing rayon telephone lines. The system includes the equipment for central, junction, transit, and terminal station and terminal unit remote-control.
CMH-[1,2]	SDP-[1,2]	Stoyka distantzionnogo pitaniya	Remote power-supply bay
CMTP	SIIR	Stol ispytaniya telegrafnykh rele	Telegraph relay-testing desk
CMH'	SKP	Stol kontrolya peredachi	Transmission control desk (automation of telegraph communications)
CMQ	SLF	Stoyka lineynykh filtrov	Line filter bay (RR communications)
CMVP	SMUR	Stroitel'no-montazhnoye upravleniye radiofikatsii	Construction and installation management for rediffusion system

СII	SP	Stoyka pitaniya	Power-supply bay (RR communications)
СIII	SPP	Stol pervichnoy perforatsii	Primary perforator desk (automation of telegraph communications)
СPII	SRP	Stoyka raspredeleniya pitaniya	Power-supply distribution bay (RR communications)
CT-35	ST-35	Sovetskiy teletayp tipa 1935 goda	The 1935-model tape teletypewriter, which uses 5-unit code and has the following data: total unit intervals per character, 7.06 ; speed, 44.9 bauds; words per hour (8.5 letters) 2696; time per signal element, 22.3 msec
CTA-56	STA-56	Sovetskiy teletayp, avtomatizirovanny, tipa 1956 goda	The 1956 automatic-tape teletypewriter. Essentially, it is an CT-35 apparatus with a reperforator and a transmitter as additional attachments.
CTB	STV	Stoyka tonal'nogo vyzova	Voice-frequency ringing bay (radio relay lines)
CTH-M	STN-M	Stoyka tonal'nogo nabora, modernizirovannaya	Voice-frequency dialing bay (modernized) (RR communications)

СТРК	СТРК	Станция технического радиоконтроля	Technical monitoring station
СУТУ	СУТУ	Стояка универсальных телефонных усилителей	Universal telephone amplifier bay which is designed for use as a terminal or intermediate amplifier (repeater) on two-wire steel or nonferrous lines as well as on two- or four-wire cable lines. Maximum gain at 800 cps: on two-wire steel lines, 1.6 nep; on nonferrous two-wire lines, 2.3 nep; on four-wire lines, 2.8-3.1 nep
СЧК	СЧК	Стояка четырехпроходной коммутации	Four-way switching bay (radio relay lines)

T-[15]	T[15]	Teletayp - [15]	Page teletypewriter. Data: total unit intervals per character, 7.42; speed 47 bauds; words per hour (8.5 letters), 2682; time per signal element, 21.2 msec
T 50	T 50	Transmitter tipa 1950 goda	The 1950 motor-driven start-stop transmitter of the APTA teletypewriter
TAH-5MP	TAN-5MP	Telefonnyy apparat, nastol'nyy, 5 MF	Improved table-type dial telephone set (modification of TAH-5 telephone set)
TAC-1	TAS-1	Stroboskop dlya provedeniya peredatchikov startstopnykh telegrafnykh apparatov	Neon stroboscope for checking start-stop telegraph transmitters
TM-IPU	TM-PRTs	Tonal'nyy manipulyator priyemnogo radiotsentra	Voice-frequency keyer for a radio-telegraph receiving center; for keying and sending d-c signal received over wire lines to local telegraph receiving offices. The keying set consists of a keying circuit, tone-generator a-f amplifier, and level indicator. Fixed carrier frequencies are 900, 1260, 1620, and 1980 cps. Input resistance is 20 kohm. Output resistance is 300 and 600 ohm.

TM-PPU2	TM-PRTs2	Tonal'nyy manipulyator priyemnogo radiotsentra-2	Voice-frequency keyer for a radio-telegraph receiver center, for keying and sending d-c signals received over wire lines to local telegraph receiving offices. The TM-PPU2 is a modified version of the TM-PPU keyer with the following changes:
			<ul style="list-style-type: none"> a. An additional cathode-follower output stage is introduced, which reduces the output resistance to 25-30 ohm; and b. An additional 4000-cps carrier frequency is added. The TM-PPU2 has been in production since 1956.
TM-PB	TM-RB	Tonal'nyy manipulyator dlya radiobyuro	Voice-frequency keyer for a radio-telegraph sending office for keying and sending d-c telegraph signals over wire lines to sending radio centers. The keyer consists of an incoming relay, tone-generator, keying circuit, a-f amplifier, and level indicator. Fixed carrier frequencies: 900, 1260, 1620, and 1980 cps. Input resistance is 0.5 Mohm (+ 10%); output resistance, 600 ohm (+ 20%)

TM-PB2	TM-RB 2	Tonal'nyy manipulyator dlya radiobyuro	Voice-frequency keyer for a radio-telegraph sending office for keying and sending d-c telegraph signals over wire lines to sending radio centers. The TM-PB2 is a modified ver- sion of TM-PB keyer with the following changes:
			a. An additional cathode- follower output stage is introduced, which reduces the output resistance to 25-30 ohm; and
			b. An additional 4000-cps carrier frequency is added.
			The TM-PB2 has been in produc- tion since 1956
TPJ	TRL	Telegrafnoye rele, lineynoye	Telegraph polarized line-relay
TPM	TRM	Telegrafnoye rele, mestnoye	Local telegraph polarized relay
TPCA-100	TRSA-100	Televizionnaya retrans- lyatsionnaya stantsiya, avtomaticheskaya, moshch- nost'yu 100 v	Automatic TV translator. Sensi- tivity of the receiver, 50 μ v; video signal transmitter power, 100 w; range, 25 km; power con- sumption, 2300 w

TPT-1	TPT-1	Trehkratnyy radiotelegrafnyy apparat	Triple radio-telegraph teletypewriter set. The set consists of a receiving and sending Baudot-type distributor and three sections of page teletypewriter apparatus. Each section consists of one page teletypewriter, one motor-driven transmitter for transmission and control, and one page teletypewriter for reception. Data: total unit intervals per character, 48; speed 149 bauds; words per hour (8.5 letters), 2487 for section; time per signal element, 7 msec
-------	-------	--------------------------------------	--

TT	TT	Tonal'noye telegrafirovaniye	Voice-frequency telegraphy
TT-2	TT-2	Telegrafnyy transmitter-2	Morse-code automatic transmitter. Operation speed, 14-300 wpm. Signal-circuit voltage, + 40 v; signal-circuit current, 10 ma; motor speed, 0-2000 rpm

TTM-12/16	TTChM-12/16	Tonal'nogo telegrafirovaniya chastotnoy moduliyatsii uplotnyayushchaya apparatura na 12/16 kanalov	Voice-frequency FM telegraph multiplexing system for telephone channels. With the use of this system, 16 channels may be achieved employing non-ferrous wire line and 12 channels employing two-wire cable. Maximum speed, 50-70 bauds;
-----------	-------------	--	---

carrier frequencies, 450, 1710, 2070, 3150 cps; band width of each channel, 130 cps; transmission level, 2.1 neper

Three-stage a-f power amplifier with 5-kw power output for re-diffusion stations. The amplifier is designed for operation with remote-control systems

Rediffusion-system battery-operated amplifier

Double synchronous teletype-writer set for automatic operation. Data: total unit intervals per character, 22; speed 66 bauds; word per hour (8.5 letters) 2541 for section; time per signal element, 15.1 millise

Voice-frequency amplifier-detector for a sending radio-telegraph center. The amplifier-detector converts keyed telegraph signals coming from telegraph offices into d-c telegraph signals. The amplifier-detector consists of an input amplifier, level indicator, delay filter, limiter, phase-inverter, and d-c amplifier. Input resistance for an

Translyatsionnyy
usillitel'-5-4

TU-5-4

Translyatsionnoye
usillitel'noye ustroy-
stvo, batereynoye-100

TUB-100

Dvukratnaya telegrafnaya
ustanovka

2TU

Tonal'nyy usillitel'-
vypryamitel' perdayu-
shehego raciotsentra

TUV-PR

TV-5-4

TVB-100

2TV

TVB-IP

800-4500-cps frequency range is 600 ohm ($\pm 20\%$).

TYB-IP2	Tonal'nyy usillitel' - vypryamitel' peredayu- stazhego radiotsentra	TUV-PR2	Voice-frequency amplifier- detector for a sending radio telegraph center. The TYB-IP2, a modified version of the TYB-IP, has been in production since 1956. Max sensitivity, -3 neper; operating input level, - 3 (+1) neper; output voltage, + 40 v; and output cur- rent at 1200 ohm load resistance, + 30 ma.
TYB-PB	Tonal'nyy usillitel' - vypryamitel' radiobyuro	TUV-RB	Voice-frequency amplifier- detector for a radio tele- graph office. The amplifier- detector converts keyed telegraph signals coming from a radio-telegraph receiving center into d-c telegraph signals. The amplifier- detector consists of an in- put amplifier, rectifier with level indicator, delay filter, limiter, phase inverter, d-c amplifier. Input resistance for an 800-4500-cps frequency range is 600 ohm ($\pm 20\%$)
TYB-PB2	Tonal'nyy usillitel' - vypryamitel' radio- byuro	TUV-RB2	Voice-frequency amplifier- detector for radio-tele- graph office. The TYB-PB2, a modified version of the TYB-PB, has been in produc- tion since 1956. Maximum

sensitivity, 3-neper; operating input level -3(+1) neper; output voltage +40 v; and output current at 1200 ohm load resistance, + 30 ma.

TYB-PB-B

TUV-RB-V

Tonali'nyy usilitel' -
vypryamitel' radiobyuro-
s vypryamitelem

Voice-frequency amplifier-detector for radio-telegraph offices. It is a modified TYB-PB amplifier-detector with a rectifier unit for supplying power from an a-c network

TW-39

TW-39

Avtomaticheskaya abonent-
skaya telegrafnaya stant-
siya

Automatic subscriber's telegraph exchange. (Presumably of non-Soviet manufacture)

УАТС 50/100	UATS 50/100	Unifitsirovannaya avtomaticheskaya telefonnaya stantsiya na 50/100 nomerov	Unified dial exchange, 50-100 number capacity
УЗТП-57	UZTP-57	Установка записи телевизионных программ-57	TV-program tape-recording assembly
"УЛОВ"	"Ulov"	Радиотелефонная станция See PT-20	"Catch" transceiver for 20 w. It is another designation for PT-20
УП-57	UP-57	Устройство присоединения-57	Line coupling unit for a power-line (6-35-kv) carrier telephone system
УС-9	US-9	Радиоприёмник на 9 ламп	The 9-tube telephone-telegraph superheterodyne radio receiver. Component of the "Oka". Frequency range, 1,500 - 18,000 kc, 200 - 500 kc; sensitivity: telephone operation, 15 v; telegraph operation, 6 v. (Used in river fleet communications)
УСВЧ	USVCh	Усилитель сверхвысокочастоты	Superhigh-frequency power amplifier used in antenna feeders of radio relay systems
УТА-3	UTA-3	Усилитель, телевизионный антенный-3	Television antenna amplifier

УУ-11-43

УУ-11-43

Указател' уровня-11-43

Level indicator for measuring absolute voltage levels. Frequency band, 50-60,000 cps

ФВЧ	ФВЧ	Фильтр высокочастот	High-frequency filter
ФММ	ФММ	Фазо-импульсная модуляция	Pulse-phase modulation
ФНЧ	ФНЧ	Фильтр низкочастот	Low-frequency filter
ФТАМ	ФТАМ	Фототелеграфная аппаратура магистральной связи	Photofacsimile system for transmission of half-tone pictures. Stroke speed is 360 lines per min. Since it is very complicated to produce and operate, it is being replaced by the ФТАМ-2
ФТАМ-2	ФТАМ-2	Фототелеграфный аппарат магистральной связи-2	Photofacsimile system for transmission of half-tone pictures. Drum diameters, 70 mm; drum length, 300 mm; scanning pitch, 0.2 and 0.265 mm; indexes of cooperation, 350 and 264; carrier frequency, 1900 cps at 60 and 120 lines per min and 280 cps at 250 lines per min. Fork-type synchronization system
ФТАП	ФТАП	Фототелеграфный аппарат, плоскостный	Flat-bed-type facsimile system used with moistened electrochemical paper. Width of paper roll, 220 mm; stroke speed, 120 lines per min; scanning pitch, 0.2 mm; index of cooperation, 350; carrier frequency, 1900 cps

ЦБ-НКС	ТсБ-НКС	Tsentrал'no-batareynnyy kommutator svyazi	Common-battery long-distance switchboard
ЦМТС	ТсМТС	Tsentrал'naya mezhdugorodnaya telefonnaya stantsiya	Central long-distance telephone office
ЦНИИ	ТсНИИ	Tsentrал'nyy nauchno-issledovatel'skiy institut svyazi	Central Scientific Research Institute of Communications of the Ministry of Communications USSR
ЦПП	ТсПП	Tsentrал'nyy peregovornyy punkt	Central long-distance telephone call office
ЦРС-1	ТсРС-1	Tsentrал'naya radiostantsiya-1	Dispatcher fixed-frequency telephone FM transceiver with selective ringing unit for duplex operation. Frequency band, 36-46 Mc; antenna input power, 80 w. For operation with the APC-1 transceiver
ЦРС-2	ТсРС-2	Tsentrал'naya radiostantsiya-2	Dispatcher fixed-frequency simplex-operation FM transceiver for operation with APC-2 transceiver. Frequency range, 36-46 Mc; antenna power, 80 w.
ЦСС МПС	ТсСС МПС	Tsentrал'naya stantsiya svyazi ministerstva putey soobshcheniya	Central Communications Office of the Ministry of Transportation

ЧММ

ChIM

Chastotno-impul'snaya
modulyatsiya

Pulse frequency modulation

ИИИ

ШИИ

**Shiroto-impul'snaya
modulyatsiya**

Pulse-width modulation