

TABLE OF CONTENTS

SECTION 18-1. TABLES

Table	Page
Authorized Abbreviations.....	18-1
JAN Nomenclature.....	18-7
Component Designations.....	18-7
Additional Designations.....	18-10
Set or Equipment Designation.....	18-10
Examples of "AN" Type Numbers.....	18-11
Cabling Tables.....	18-12
Heat and Flame Resistant, Non-Flexing Service.....	18-12
Special Purpose Cables.....	18-15
Twisted Pair, Telephone, Radio, Shielded Cable - Armored and Unarmored.....	18-16
Repeated Flexing Service.....	18-17
Steel Stuffing Tube Information..	18-20
Color Code for Navy Type Twisted Pair Telephone	
Wires.....	18-21
Navy Standard Color Code for Conductors.....	18-22
Decibel Conversion Chart.....	18-23
Letter Symbols for Electron Tube Notation.....	18-24
Color Codes for Transformer Leads.....	18-33
Radio Power Transformers...	18-33
Audio Frequency Transformers.....	18-33
Nomenclature of Frequency Bands.....	18-36
Pronouncing Alphabet (communications).....	18-36
Stations and Frequencies used for Time Checks.....	18-37
Frequency Allocations.....	18-38
Types of Transmission.....	18-40
Tap Drill Sizes.....	18-42
Decimal Equivalents of an Inch..	18-44
National Coarse and National Fine Thread.....	18-45
Definitions (Screw Thread).....	18-46

SECTION 18-1. TABLES (Cont'd)

Table	Page
Machine Bolts.....	18-47
Naval Brass.....	18-47
Steel - Uncoated (Black).....	18-48
Steel - Galvanized.....	18-54
Steel - Corrosion Resisting ...	18-57
Carriage Bolts.....	18-59
Standard Navy Stock Numbers of Commercial Brass (Uncoated) Machine Screws.....	18-62
Hexagon and Square Machine Screw Nuts and Jam Nuts (Class 2 Fit).....	18-70
Commercial Wire Gages.....	18-75
Standard Metal Gages.....	18-76
Magnet Wire Table.....	18-78
Bare Copper Wire.....	18-79
Copper Bus Bar.....	18-81
Wire Rope Table.....	18-82
Type A, 6 x 19.....	18-82
Type B, 6 x 19.....	18-83
Type C, 6 x 19.....	18-84
Type F, 6 x 12.....	18-85
Type G, 6 x 12.....	18-86
Type H, 6 x 12.....	18-87
Type M, 1 x 7.....	18-88
Type N, 1 x 19.....	18-88
Antenna Fundamentals.....	18-89
Length Determination.....	18-89
Comparison of Electrical and Physical Length.....	18-89
Characteristic Impedance.....	18-89
Conversion Table of Electrical Units.....	18-90
Table of Conversion Factors.....	18-91
Area.....	18-91
Length.....	18-91
Power.....	18-92
Energy.....	18-92
Miscellaneous.....	18-92
Thermometric Conversion Scales.....	18-93
Centigrade Table of Relative Humidity.....	18-94

TABLE OF CONTENTS (Cont'd)

SECTION 18-1. TABLES (Cont'd)		SECTION 18-1. TABLES (Cont'd)	
Table	Page	Table	Page
Fahrenheit Psychrometric Humidity Table	18-95	Measure of Angles or Arcs	18-102
Table of Dielectric Constants...	18-96	Metric System	18-102
Current Leakage of Electrolytic Capacitors	18-96	Length	18-102
Time Conversion Table	18-97	Surface	18-102
Weights and Measures Table ...	18-99	Volumes	18-103
Avoirdupois Weight.....	18-99	Weights.....	18-103
Troy Weight	18-99	Table of Lumber Weights	18-104
Dry Measure	18-99	Wood	18-104
Long Measure	18-100	Plywood	18-105
Square Measure	18-100	CG Table	18-106
Liquid Measure	18-100	Army-Navy Standard List of RG Type Designations	18-129
Nautical Measure	18-101	UG Table	18-147
Surveyor's Measure	18-101	List of Books for Study or Reference	18-203
Cubic Measure.....	18-101		

LIST OF ILLUSTRATIONS

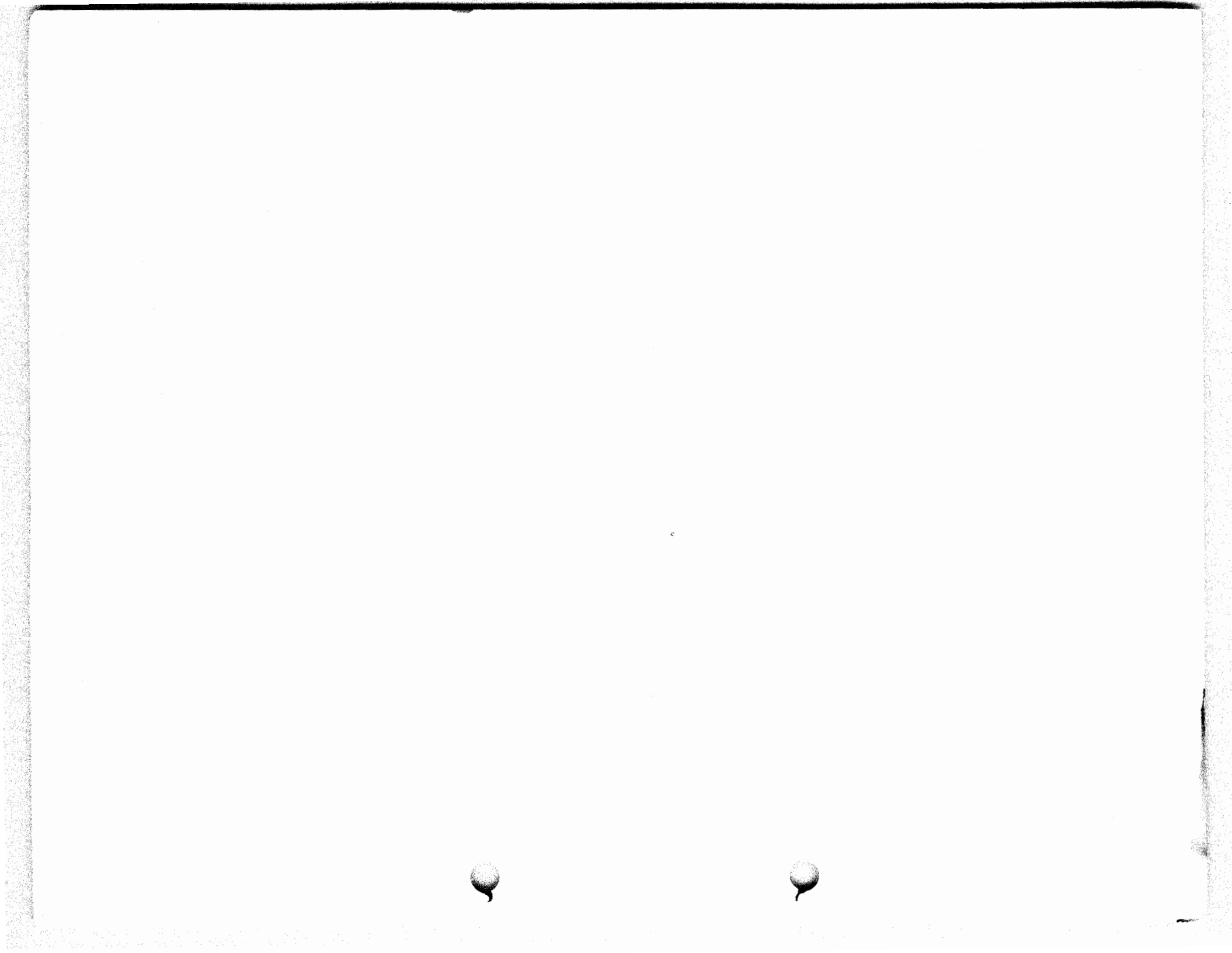
Figure	Page	Figure	Page
18-1 Electrical Symbols.....	18-25	18-5 Types of Bolts and Washers	18-72
18-2 Color Codes for Fixed Composition Resistors ..	18-34	18-6 Types of Nuts.....	18-73
18-3 Color Codes for Capacitors.....	18-35	18-7 Screw Threads	18-74
18-4 Types of Screws	18-71	18-8 Ohms Law Table	18-91
		18-9 Station WWV Time Announcements	18-98

INTRODUCTION

The purpose of this chapter is to provide the electronic installation worker and electronic engineer with tables, scales, conversion charts, equations and reference material prepared especially for application to electronic equipment. In addition, the tables, scales, conversion charts, etc., adapted for general use are included.

This special material includes, for example, cabling tables, JAN nomenclature, fundamental antenna formulas, the formula for determining the characteristic impedance of coaxial or concentric cable lines, stuffing tube information, standard Navy color codes, and CG, RG and UG type designations with available Navy stock numbers.

Chapter 18 is thus prepared to assist the electronic installation worker in his daily duties and the electronic engineer in his daily calculations. Both should be cautioned, however, that the information listed is to be used only in the absence of a more specific data. Reference data, especially item lists, must be revised to keep pace with electronic equipment and methods of use.



SECTION 18-1

TABLES

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
A		B	
Army Air Forces	AAF	British thermal unit (s)	Btu
absolute	abs	bromide	brom
accommodate (s) (ing)	accom	bushel (s)	bu
AC test voltage	vact	button-head	But H
adapter	adpt	by (as used to express dimensions)	x
adjust, adjustable or adjustment	adj	C	
alternating current	AC	cadmium	cad
altitude	alt	Camp Evans Signal Laboratory	CESL
American Wire Gauge	AWG	candle power	cp
American Society of Mechanical Engineers	ASME	capacity	cap
American Standards Association	ASA	case-hardened steel	CHS
American Steel & Wire Gauge	AS&WG	cathode-ray	CR
American War Standard	AWS	center (ed)	ctr
ampere (s)	amp	center tap or center tapped	CT
ampere-hour (s)	amp hr	center to center	c to c
amplifier (s)	amplr	centigrade	C
amplitude modulation	AM	centimeter	cm
anhydrous	anhyd	chamfer (ed)	cham
antenna (s)	ant	chemical	chem
aperture	apert	chemically pure	CP
approximately or approximate	approx	chloride	chlr
armature (s)	arm	circuit	ckt
assembly	assem	circular	cir
assigned	asgd	circular mil (s)	cir mils
atmosphere (s) or atmospheric	atm	circumference	circum
audio frequency	AF	coaxial	coax
automatic frequency control	AFC	coefficient	coef
automatic volume control	AVC	cold-drawn	CD
auxiliary	aux	cold-rolled steel	CRS
average	avg	combination	comb
B		common battery	CB
balance	bal	communication (s)	com
barrel (s)	bbl	company	Co
battery (ies)	batt	composition	comp
bearing (s)	brg	conductor (s)	cond
beat-frequency oscillator	BFO	consists (ing) of	c/o
binding-head	Bind H	constant	const
Birmingham Wire Gauge	BWG	contact (s)	cont
bracket (s)	bkt	container (s)	cntr
brake horsepower	bhp	continuous wave	CW
		copy (ies)	cy

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
C		D	
corporation	Corp	double wire armor (ed)	DWA
counterbore (d)	ctb	dozen	doz
countersunk	csk	drawing (s)	dwg
crystal (s)	xtal	drum (s)	dr
cubic centimeter (s)	cc	duplicate	dup
cubic feet per minute	cfm	dynamotor (s)	dyn
cubic feet per second	cfs		
cubic foot (feet)	cu ft	E	
cubic inch (es)	cu in	each	ea
cubic meter (s)	cu m	efficiency	eff
cubic yard (s)	cu yd	electric	elec
current	cur	electromotive force	EMF
cycle (s)	cyc	electron-coupled oscillator	ECO
cycles per second	cps	enameled	E
cylinder (s)	cyl	enameled, double-cotton-covered	EDC
		enameled, double-silk-covered	EDS
		enameled, single-cotton-covered	EC
		enameled, single-silk-covered	ES
		enclosed (ure)	encl
		enlarger or enlarging	enlg
		equipment	equip
		equivalent manufacturers' numbers	EMN
		expendable	X
		exposure	exp
		external	ext
		F	
		Fahrenheit	F
		Federal	Fed
		filament (s)	fil
		fillister-head	Fil H
		first	1st
		flange	fl
		flat-head	FH
		flexible	flex
		focal length	f/lg
		foot (feet)	ft
		foot-pound	ft lb
		frequency (ies)	freq
		frequency modulation	FM
		from mounting surface	FMS
		fungusproof (ed)	fp
		G	
		gallon (s)	gal

D

dated	dtd
DC test volts	vdct
DC working volts	vdcw
decibel (s)	db
degree (s)	deg
degrees centigrade	°C
degrees Fahrenheit	°F
depth or deep	d
description (s)	descr
desk stand (s)	DS
desiccated	desic
detail (s)	det
developer	dev
diaphragm	dphgm
diameter (s)	diam
dimensions	dimen
direct current	DC
double braid (ed)	DB
double-braided, weatherproofed	DBWP
double-cotton-covered	DC
double-cotton, double-silk-covered	DCDS
double-cotton, single-silk-covered	DCS
double-groove (insulators)	DG
double-groove, double petticoat (insulators)	DGDP
double-pole, double-throw	DPDT
double-pole, single-throw	DPST
double-silk-covered	DS
double tape armor (ed)	DTA
double weight	DW

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
G		J	
galvanized	galv	Joint Army-Navy	JAN
galvanized iron	GI	Joint Army-Navy publication	JANP
gauge	ga		
generator (s)	gen	K	
grain (s)	gr	kilocycle (s)	kc
gram (s)	gm	kilogram (s)	kg
ground (ed)	gnd	kilometer (s)	km
		kilovolt (s)	kv
H		kilovolt-amperes (s)	kva
handset (s)	hs	kilowatt (s)	kw
hard-drawn	HD		
hardware	hdw	L	
heavy enameled	HE	laminated (ion)	lam
height or high	h	lead-covered	LC
henry (s)	hy	left-hand	LH
hermetically sealed	HS	length or long	lg
hexagon or hexagonal	hex	lens speed (photographic)	f/ (f/4.5)
high-frequency	HF	letter	ltr
high-voltage	HV	linear	lin
horizontal	horiz	liquid	liq
horsepower	hp	litzendraht (wire)	litz
horsepower-hour (s)	hp hr	local battery	LB
hot-rolled steel	HRS	logarithmic or logarithm	log
hour (s)	hr	low-frequency	LF
		low-voltage	LV
I		M	
ignition	ign	machine	mach
impregnate (ed) (ion)	impr	magneto	mag
inch (es)	in. or "	main distributing frame	MDF
includes, included, inclusive, including	incl	maintenance	maint
incorporated	Inc	malleable	mal
induction	ind	manual volume control	MVC
infinity	inf	manufacturer (s)	mfr
inside diameter (s)	ID	manufacturing	mfg
inside frosted	Int F	Marine Corps	USMC
insulator, insulated or insulating (s)	ins	Mark (Such as Mark 5, etc)	Mk
intermediate distributing frame	IDF	master oscillator	MO
intermediate frequency	IF	master-oscillator power amplifier	MOPA
intermediate power amplifier	IPA	material	matl
internal	int	maximum	max
internal frosted	Int F	medium	med
interphone control station	ICS	medium high-frequency	MHF
interrupted continuous wave (s)	ICW		
iron pipe size	IPS		

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
M		O	
megacycle (s)	mc	operating	oper
megohm (s)	meg	operations per minute	opm
meteorological	met	Ordnance	Ord
meter (s) (unit of measure)	m	orthochromatic	ortho
microampere (s)	ua	oscillator	osc
microfarad (s)	mf	ounce (s)	oz
microhenry (s)	uh	outside diameter (s)	OD
micromicrofarad (s)	mmf	oval-head	OH
microphone	mic	overall	o/a
microsecond (s)	u sec	P	
microvolt (s)	uv	package	pkg
mid-line frequency	MLF	packed	pkd
mile (s) per hour	mph	pair (s)	pr
milliamper (s)	ma	panchromatic	pan
millibar (s)	mb	part of	p/o
millihenry (s)	mh	Parts Control List	PCL
millimeter (s)	mm	penny (nails)	d
millivolt (s)	mv	pentode	pent
milliwatt (s)	mw	per cent	%
minimum	min	phase	ph
minute (s)	min	Phillips head	PH
modification work order	MWO	pint (s)	pt
modulated continuous wave	MCW	pitch diameter	PD
modulator	mod	permanent-magnet (speaker)	PM
moistureproof (ed)	mp	plated	pl
motion-picture	MP	plus or minus	±
mounted	mtd	plan (or plane) position indicator	PPI
mounting	mtg	polarized	pol
mounting center (s)	mtg/c	porcelain	por
mounts	mts	positive	pos
N		potentiometer (s)	pot
National Coarse (thread)	NC	pound (s)	lb
National Electrical Code	NEC	pounds per cubic foot	pcf
National Electrical Manufacturers' Association	NEMA	pounds per square foot	psf
National Fine (thread)	NF	pounds per square inch	psi
National Straight Pipe Thread	NST	power factor	pf
Navy type	NT	primary (ies)	pri
negative	neg	Private Branch Exchange	PBX
neutralizing	neut	projector	proj
New British Standard (Imperial Wire Gauge)...	NBS	protector	prot
nominal	nom	public address	PA
non-expandable	NX	pulsating current	PC
number (s)	No. or ≠	push-pull	PP

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
Q		S	
quart (s)	qt	Society for Visual Education	SVE
Quartermaster Corps	QMC	Society of Automotive Engineers	SAE
R		sodium thiosulphate	hypo
radio frequency	RF	soft-drawn	SD
Radio Manufacturers' Association	RMA	speaker	spkr
radius	rad	special	spcl
rapid rectilinear	RR	specification (s)	spec
receiver (s)	rec	specific gravity	sp gr
rectifier (s)	rect	square	sq
reference (s)	ref	square foot (feet)	sq ft
resistant to salt water	RSW	square inch (es)	sq in
revolutions per minute	rpm	stainless steel	SS
revolutions per second	rps	standard (s)	std
right-hand	RH	stock	stk
root mean square	RMS	stock number	Stk No.
round-head	RH	straight line capacity	SLC
rubber-covered	RC	straight line frequency	SLF
rubber-covered, braided	RCB	straight line wavelength	SLW
rubber-covered, braided, weather-proofed	RCBWP	superimposed current	SC
rubber-covered, double-braided	RCDB	switch (es)	sw
rubber-covered, weather-proofed	RCWP	switchboard (s)	sb
rubber insulated (ion)	RI	synchronous	sync
S		synthetic	syn
screwdriver	sedr	T	
second (s) (unit of time)	sec	technical manual	TM
second (ordinal number)	2nd	temperature	temp
secondary (ies)	secd	telegraph	tg
section (s)	sect	telephone (s)	tp
selective ringing	SR	telephoto	tpo
semi matte	SM	teletypewriter (s)	tt
Signal Corps	Sig C	terminal (s)	term
single braid	SB	tertiary	ter
single-cotton-covered	C	thick or thickness	thk
single-cotton-, double-silk-covered	CDS	third	3rd
single-cotton-, single-silk-covered	CS	thousand circular mils	m/cir mils
single-groove (insulators)	SG	thread (s)	thd
single-groove, single-pecticoat (insulators)	SGSP	tolerance	tol
single-pole, double-throw	SPDT	tool steel	TS
single-pole, single-throw	SPST	tracer (s)	tr
single-silk-covered	S	transformer (s)	transf
single tape armor (ed)	STA	transmit-receive	TR
single weight	SW	transmitter (s)	xmtr
single wire armor (ed)	SWA	triple-braid (ed)	TB
		triple-braid, weather-proofed	TBWP
		triple-pole, double-throw	TPDT

AUTHORIZED ABBREVIATIONS

Term	Abbreviation	Term	Abbreviation
T		V	
tropically packed	tropkd	volt-ohm-milliammeter	VOM
trunk (s)	trk	volume	vol
tubular	tubr	volume units	vu
tuned radio frequency	TRF	vulcanized	vul
tungsten	tung		
twisted	tw	W	
U		War Department	WD
ultra-high-frequency	UHF	watt (s)	w
Underwriters Laboratory	UL	watt hour (s)	w hr
United States Pharmacopoeia	USP	waterproof (ed)	wp
United States Standard	USS	weight (s)	wt
used with	u/w	wide angle	WA
V		wide or width	wd
vacuum tube voltmeter	VTVM	wire-wound	WW
variable	var	with	w/
vertical	vert	without	w/o
very-high-frequency	VHF	wound, winding (s)	wnd
video frequency	VF	words per minute	wpm
volt (s) or voltage	v	wrought iron	WI
volts AC test	vact	Y	
volt-ampere (s)	va	yard (s).....	yd
		year (s)	yr

JAN NOMENCLATURE

COMPONENT DESIGNATIONS

Component Designation	Type	Description
AB	Supports, Antenna	Antenna mounts, mast bases, mast sections, towers, etc.
AM	Amplifiers	Power, audio, interphone, radio frequency, video, servo (nonrotating), etc.
AS	Antenna Assemblies	Complex: Arrays, parabolic type, masthead, etc.
AT	Antennae	Simple: Whip or telescopic, loop, dipole, reflector, also transducer, etc. (See H).
BA	Battery, primary type	B-batteries, battery packs, etc.
BB	Battery, secondary type	Storage batteries, battery packs, etc.
BZ	Signal Devices, Audible	Buzzers, gongs, horns, etc.
C	Control Articles	Control box, remote tuning control, etc.
CA	Commutator Assemblies, Sonar	Peculiar to Sonar equipment.
CB	Capacitor Bank	Used as a power supply.
CG	Cables and Transmission Line, R.F.	R.F. cables, wave guides, etc., with terminals.
CK	Crystal Kits	A kit of crystals with holders.
CM	Comparators	Analyzes or compares two or more input signals.
CN	Compensators	Electrical and/ or mechanical compensating, regulating or attenuating apparatus.
CP	Computers	A mechanical and/ or electronic mathematical calculating device.
CR	Crystals	Crystal in crystal holder.
CU	Coupling Devices	Impedance coupling devices, directional couplers, etc.
CV	Converters (electronic)	Electronic apparatus for changing the phase, frequency, or from one medium to another.
CW	Covers	Cover, bag, roll, cap, radome, nacelle, etc.
CX	Cords	Cord with terminals, also composite cables of R.F. and non-R.F. conductors.
CY	Cases	Rigid and semirigid structure for housing or carrying equipment.
DA	Antenna, Dummy	R.F. test loads.
DT	Detecting Heads	Magnetic pick-up device, search coil, hydrophone, etc.
DY	Dynamotors	Dynamotor power supply.
E	Hoist Assembly	Sonar hoist assembly, etc.
F	Filters	Band-pass, noise, telephone, wave traps, etc.
FN	Furniture	Chairs, desks, tables, etc.
FR	Frequency Measuring Devices	Frequency meters, echo boxes, etc.
G	Generators	Electrical power generators without prime movers. (See PU & PD).
GO	Goniometers	Goniometers of all types.
GP	Ground Rods	Ground Rods, stakes, etc.
H	Head, Hand, and Chest Sets	Includes earphone.
HC	Crystal Holder	Crystal Holder less crystal.
HD	Air Conditioning Apparatus	Heating, cooling, dehumidifying, pressure, vacuum devices, etc.
ID	Indicating Devices	Calibrated dials and meters, indicating lights, etc. (See IP).

COMPONENT DESIGNATIONS

Component Designation	Type	Description
IL	Insulators	Strain, stand-off, feed-through, etc.
IM	Intensity Measuring Devices	Includes SWR gear, field intensity and noise meters, etc.
IP	Indicators, Cathode Ray Tube	Azimuth, Elevation, PPI, panoramic, etc.
J	Junction Devices	Junction, jack and terminal boxes; connector panels, etc.
KY	Keying Devices	Mechanical, electrical and electronic keyers, coders, interrupters, etc.
LC	Tools, Line Construction	Includes special apparatus such as cable plows, etc.
LS	Loudspeakers	Separately housed loudspeakers.
M	Microphones	Radio, telephone, throat, hand, etc.
MD	Modulators	Device for varying amplitude, frequency or phase.
ME	Meters, Portable	Multimeters, volt-ohm-milliammeters, vacuum tube voltmeters, power meters, etc.
MK	Maintenance Kits or Equipments	Radio, telephone, general utility, etc.
ML	Meteorological Devices	Barometer, hygrometer, thermometer, scales, etc.
MT	Mountings	Mountings, racks, frames, stands, etc.
MX	Miscellaneous	Equipment not otherwise classified. Do not use if better indicator is available.
O	Oscillators	Master frequency, blocking, multivibrators, etc. For test oscillators, see SG.
OA	Operating Assemblies	Assembly of operating units not otherwise covered.
OC	Oceanographic Devices	Bathythermographs, etc.
OS	Oscilloscope, Test	Test Oscilloscopes for general test purposes.
PD	Prime Drivers	Gasoline engines, electric motors, Diesel motors, etc.
PF	Fittings, Pole	Cable hangar, clamp, protectors, etc.
PG	Pigeon Articles	Container, loft, vest, etc.
PH	Photographic Articles	Camera, projector, sensitometer, etc.
PP	Power Supplies	Nonrotating machine type such as vibrator pack, rectifier, thermo-electric, etc.
PT	Plotting Equipments	Except meteorological. Boards, maps, plotting table, etc.
PU	Power Equipments	Rotating power equipment except dynamotors. Motor-generator, etc.
R	Receivers	Receivers, all types except telephone.
RD	Recorders and Reproducers	Tape, facsimile, disc, magnetic, etc.
RE	Relay Assemblies	Electrical, electronic, etc.
RF	Radio Frequency Component	Composite component of RF circuits. Do not use if better indicator is available.
RG	Cables and Transmission Line, Bulk RF	RF cable, wave guides, etc., without terminals.
RL	Reel Assemblies	Antenna, field wire, etc.
RP	Rope and Twine	Nonelectrical cord, etc.
RR	Reflectors	Target, confusion, etc. Except antenna reflectors. (See AT.)
RT	Receiver and Transmitter	Radio and radar transceivers, composite transmitter and receiver, etc.
S	Shelters	House, tent, protective shelter, etc.

COMPONENT DESIGNATIONS

Component Designation	Type	Description
SA	Switching Devices	Manual, impact, motor driven, pressure operated, etc.
SB	Switchboards	Telephone, fire control, power, panel, etc.
SG	Generators, Signal	Includes test oscillators and noise generators. (See O.)
SM	Simulators	Flight, aircraft, target, signal, etc.
SN	Synchronizers	Equipment to coordinate two or more functions.
ST	Straps	Harness, straps, etc.
T	Transmitters	Transmitters, all types except telephone.
TA	Telephone Apparatus	Miscellaneous telephone equipment.
TD	Timing Devices	Mechanical and electronic timing devices, range device, multiplexers, electronic gates, etc.
TF	Transformers	Transformers when used as separate items.
TG	Positioning Devices	Tilt and/or Train Assemblies.
TH	Telegraph Apparatus	Miscellaneous telegraph apparatus.
TK	Tool Kits or Equipments ..	Miscellaneous tool assemblies.
TL	Tools	All types except line construction. (See LC.)
TN	Tuning Units	Receiver, transmitter, antenna, etc.
TS	Test Equipment	Test and measuring equipment not otherwise included.
TT	Teletypewriter and Facsimile Apparatus	Miscellaneous tape, teletype, facsimile equipment, etc.
TV	Tester, Tube	Vacuum tube tester.
U	Connectors, Audio and Power	Unions, plugs, sockets, adapters, etc.
UG	Connectors, RF	Unions, plugs, sockets, choke couplings, adapters, elbows, flanges, etc.
V	Vehicles	Carts, dollies, trucks, trailers, etc.
VS	Signaling Equipment, Visual	Flag sets, aerial panels, signal lamp equipment, etc.
WD	Cables, Two Conductor ...	Includes non-RF wire, cable and cordage in bulk.
WF	Cables, Four Conductor ...	Includes non-RF wire, cable and cordage in bulk.
WM	Cables, Multiple Conductor	Includes non-RF wire, cable and cordage in bulk.
WS	Cables, Single Conductor	Includes non-RF wire, cable and cordage in bulk.
WT	Cables, Three Conductor	Includes non-RF wire, cable and cordage in bulk.
ZM	Impedance Measuring Devices	Used for measuring Q, C, L, R or PF, etc.

ADDITIONAL DESIGNATIONS

Experimental Sets. In order to identify a set or equipment of an experimental nature with the development organization concerned, the following designations will be used within the parentheses:

- | | |
|---|---|
| XA—Wright Air Dev. Center, Dayton, Ohio | XM—Squier Signal Laboratory
Fort Monmouth, N.J. |
| XB—Naval Research Lab., Wash., D.C. | XN—Navy |
| XC—Coles Signal Laboratory
Fort Monmouth, N.J. | XS—Components and Systems Lab., AMC
Dayton, Ohio |
| XE—Evans Signal Laboratory
Fort Monmouth, N.J. | XU—U.S.N. Underwater Sound Lab.
Fort Trumbull, New London, Conn. |
| XG—U.S.N. Electronic Lab., San Diego, Calif. | XW—Rome Air Dev. Center
Rome, N.Y. |
| XJ—Naval Air Dev. Center
Johnsville, Pa. | |

SET OR EQUIPMENT DESIGNATION

Installation	Type Of Equipment	Purpose
A—Airborne (installed and operated in aircraft)	A—Invisible light, heat radiation	A—Auxiliary, assemblies (not complete operating sets)
B—Underwater mobile, submarine	B—Pigeon	B—Bombing
C—Air transportable (inactivated, do not use)	C—Carrier	C—Communications (receiving and transmitting)
D—Pilotless carrier	D—Radiac	D—Direction finder
F—Fixed	E—Nupac	G—Gun or searchlight directing
G—Ground, general ground use (includes two or more ground installations)	F—Photographic	H—Recording (photographic, meteorological and sound)
K—Amphibious	G—Telegraph or teletype	L—Searchlight control (inactivated, use "G")
M—Ground, mobile (installed as operating unit in a vehicle which has no function other than transporting the equipment)	I—Interphone and public address	M—Maintenance and test assemblies (including tools)
P—Pack or portable (animal or man)	K—Telemetering	N—Navigational aids (including altimeters, beacons, compasses, racons, depth sounding, approach and landing)
S—Water surface craft	L—Countermeasures	P—Reproducing (photographic and sound)
T—Ground, transportable	M—Meteorological	Q—Special, or combination of types
U—General utility (includes two or more general installation classes, airborne, shipboard and ground)	N—Sound in air	R—Receiving
V—Ground, vehicular (installed in vehicle designed for functions other than carrying electronic equipment, etc., such as tanks)	P—Radar	S—Detecting and/or range and bearing
	Q—Sonar and underwater sound	T—Transmitting
	R—Radio	W—Control
	S—Special types, magnetic, etc. or combination of types	X—Identification and recognition
	T—Telephone (wire)	
	V—Visual and visible light	
	X—Facsimile or television	

EXAMPLES OF "AN" TYPE NUMBERS

Type Number	Designates
AN/SRC-3()	General reference set nomenclature for water surface craft radio communication set No. 3.
AN/SRC-3	Original procurement set nomenclature applied against AN/SRC-3().
AN/SRC-3A	Modification set nomenclature applied against AN/SRC-3.
AN/APQ-13-T1()	General reference training set nomenclature for the AN/APQ-13 set.
AN/APQ-13-T1	Original procurement training set nomenclature applied against AN/APQ-13-T1().
AN/APQ-13-T1A	Modification training set nomenclature applied against AN/APQ-13-T1.
AN/UPT-T3()	General reference training set nomenclature for general utility radar transmitting training set No. 3.
AN/UPT-T3	Original procurement training set nomenclature applied against AN/UPT-T3().
AN/UPT-T3A	Modification training set nomenclature applied against AN/UPT-T3.
T-51()/ARQ-8	General reference component nomenclature for transmitter No. 51, part of or used with airborne radio special set No. 8.
T-51/ARQ-8	Original procurement component nomenclature applied against T-51()/ARQ-8.
T-51A/ARQ-8	Modification component nomenclature applied against T-51/ARQ-8.
RD-31()/U	General reference component nomenclature for recorder-reproducer No. 31 for general utility use, not part of a specific set.
RD-31/U	Original procurement component nomenclature applied against RD-31()/U.
RD-31A/U	Modification component nomenclature applied against RD-31/U.

CABLING TABLES

HEAT AND FLAME RESISTANT, NON-FLEXING SERVICE

CABLE TYPE	NUMBER OF CONDUCTORS	CM AREA/ COND.	MAXIMUM AMPERES RATING AT 40°C AMB.	MAXIMUM AMPERES RATING AT 50°C AMB.	MAXIMUM VOLTAGE DC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	MINIMUM RADIUS OF BEND-INCHES	SIZE OF STUFFING TUBE
SHFA-3	1	2828	15	14	1000	.00392	.068	.355	2.5	A
SHFA-4	1	4497	26	24	1000	.00246	.134	.500	3.0	C
SHFA-9	1	9016	53	49	1000	.00123	.230	.556	4.0	D
SHFA-14	1	14340	71	65	1000	.000784	.262	.684	4.5	D
SHFA-23	1	22800	92	85	1000	.000493	.306	.719	4.5	D
SHFA-30	1	30860	113	104	1000	.000365	.346	.749	5.0	E
DHFA-3	2	2828	13	12	1000	.00400	.143	.530	3.5	C
DHFA-4	2	4497	22	20	1000	.00250	.294	.778	5.0	E
DHFA-9	2	9016	44	41	1000	.00126	.361	.842	5.5	G
DHFA-14	2	14340	60	55	1000	.000800	.451	.922	6.0	G
DHFA-23	2	22800	78	72	1000	.000505	.555	.992	6.5	J
DHFA-30	2	30860	94	87	1000	.000362	.694	1.110	7.0	K
THFA-3	3	2828	11	10	1000	.00400	.171	.560	3.5	C
THFA-4	3	4497	18	17	1000	.00250	.334	.812	5.0	F
THFA-9	3	9016	39	36	1000	.00126	.413	.881	5.5	G
THFA-14	3	14340	51	47	1000	.000800	.527	.968	6.0	J
THFA-23	3	22800	69	64	1000	.000505	.659	1.040	6.5	J
THFA-30	3	30860	84	77	1000	.000362	.855	1.170	7.5	L
FHFA-3	4	2828	11	10	1000	.00400	.205	.610	4.0	C
FHFA-4	4	4497	18	17	1000	.00250	.389	.865	5.5	G
MHFA-7	7	2828	8	6	1000	.00403	.383	.859	5.5	G
MHFA-10	10	2828	8	6	1000	.00403	.516	1.04	6.5	J
MHFA-14	14	2828	8	6	1000	.00403	.634	1.12	7.5	K
MHFA-19	19	2828	8	6	1000	.00403	.764	1.21	8.0	L
MHFA-24	24	2828	6	5	1000	.00403	.951	1.375	9.0	M
MHFA-30	30	2828	6	5	1000	.00403	1.09	1.46	9.5	N
MHFA-37	37	2828	6	5	1000	.00403	1.29	1.57	10.5	P
MHFA-44	44	2828	5	4	1000	.00403	1.5	1.734	11.0	R

TABLES

NAVSHIPS 900,171

Section 18-1
Cabling Tables

HEAT AND FLAME RESISTANT, NON-FLEXING SERVICE

CABLE TYPE	NUMBER OF CONDUCTORS	CM AREA/ COND.	MAXIMUM AMPERES RATING AT 40°C AMB.	MAXIMUM AMPERES RATING AT 50°C AMB.	MAXIMUM VOLTAGE DC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	MINIMUM RADIUS OF BEND-INCHES	SIZE OF STUFFING TUBE
SSGA-3	1	2828	15	14	1000	.00392	.044	.305	2.0	A
SSGA-4	1	4497	26	24	1000	.00246	.053	.323	2.0	A
SSGA-9	1	9016	53	49	1000	.00123	.079	.371	2.5	A
SSGA-14	1	14340	71	65	1000	.000770	.102	.414	2.5	B
SSGA-23	1	22800	92	85	1000	.000486	.140	.453	3.0	B
SSGA-30	1	30860	113	104	1000	.000358	.165	.484	3.0	B
DSGA-3	2	2828	13	12	1000	.00400	.087	.441	3.0	B
DSGA-4	2	4497	22	20	1000	.00251	.108	.477	3.0	B
DSGA-9	2	9016	44	41	1000	.00126	.183	.594	4.0	C
DSGA-14	2	14340	60	55	1000	.000785	.258	.680	4.0	D
DSGA-23	2	22800	78	72	1000	.000496	.345	.781	5.0	E
DSGA-30	2	30860	94	87	1000	.000365	.430	.852	5.5	G
TSGA-3	3	2828	11	10	1000	.00400	.104	.461	3.0	B
TSGA-4	3	4497	18	17	1000	.00251	.130	.499	3.0	B
TSGA-9	3	9016	39	36	1000	.00126	.224	.625	4.0	C
TSGA-14	3	14340	51	47	1000	.000785	.325	.718	4.5	D
TSGA-23	3	22800	69	64	1000	.000496	.430	.812	5.0	F
TSGA-30	3	30860	84	77	1000	.000365	.560	.902	5.5	G
FSGA-3	4	2828	11	10	1000	.00400	.124	.497	3.5	B
FSGA-4	4	4497	18	17	1000	.00251	.172	.563	4.0	C
FSGA-9	4	9016	39	36	1000	.00126	.276	.680	4.5	D
MSCA-7	7	1779	8	6	1000	.00637	.152	.534	4.0	C
MSCA-10	10	1779	8	6	1000	.00637	.234	.672	5.0	D
MSCA-14	14	1779	8	6	1000	.00637	.282	.718	5.5	D
MSCA-19	19	1779	8	6	1000	.00637	.347	.788	6.0	E
MSCA-24	24	1779	6	5	1000	.00637	.447	.905	6.5	G
MSCA-30	30	1779	6	5	1000	.00637	.511	.951	7.0	J
MSCA-37	37	1779	6	5	1000	.00637	.601	1.022	7.5	J
MSCA-44	44	1779	5	4	1000	.00637	.732	1.134	8.5	K

NOTE: SSGA replaces Type SHFA, DSGA replaces Type DHFA, TSGA replaces Type THFA, FSGA replaces Type FHFA, MSCA replaces Type MHFA.

ORIGINAL

18-13

HEAT AND FLAME RESISTANT, NON-FLEXING SERVICE

CABLE TYPE	NUMBER OF PAIRS	CM AREA/COND.	INDIVIDUAL MAX. AMPS.	AVERAGE AMPS. AT 40°C AMB.	INDIVIDUAL MAX. AMPS.	AVERAGE AMPS. AT 50°C AMB.	MAXIMUM VOLTAGE DC * BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	MINIMUM RADIUS OF BEND-INCHES	SIZE OF STUFFING TUBE
TTHFWA-1 ½	1 ½	704	4	4	3	3	500	.0162	.097	.380	2.5	B
TTHFWA-3	3	704	4	3	3	2	500	.0162	.139	.500	3.5	C
TTHFWA-5	5	704	4	2	3	1	500	.0162	.180	.590	4.0	C
TTHFWA-10	10	704	4	1	3	.50	500	.0162	.243	.690	4.5	D
TTHFWA-15	15	704	4	.75	3	.375	500	.0162	.290	.800	5.5	F
TTHFWA-20	20	704	4	.50	3	.25	500	.0162	.331	.880	6.0	G
TTHFWA-30	30	704	.	.	.	.	500	.0162	.422	1.030	7.0	J
TTHFWA-40	40	704	.	.	.	.	500	.0162	.507	1.130	7.5	K
TTHFWA-50	50	704	.	.	.	.	500	.0162	.594	1.265	8.5	M
TTHFWA-60	60	704	.	.	.	.	500	.0162	.736	1.350	9.0	N

* NOTE: Maximum voltage AC between conductors is 300.

SPECIAL PURPOSE CABLES

CABLE TYPE	NUMBER OF CONDUCTORS	CM AREA/COND.	MAXIMUM AMPERES RATING AT 40°C AMB.	MAXIMUM AMPERES RATING AT 50°C AMB.	MAXIMUM VOLTAGE AC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	MINIMUM RADIUS OF BEND-INCHES	SIZE OF STUFFING TUBE
DRLL-4	2	4497	17	13	300			.295 x .520	1.0	
MCSP-6	2 Shielded Pair 2 Singles	1005	Microphone Cable		300	.0114	.150	.595	1.0	C
PBLW-4	2 One wire is iron the other is Constantin		Pyrometer Base Lead Wire				.135	.480		
DSS-2	2					.00664		.390		
DSS-3	2					.00415		.445		
TSS-4	3					.00257		.500		
FSS-2	4					.00664		.465		
MSS-6	6					.0105		.490		
					RADIO HIGH VOLTAGE					
SHFR-4	1	4497	32	30	3000		.135	.540	3.5	C
DHFR-4	2	4497	26	24	3000		.325	.844	5.0	G
THFR-4	3	4497	24	22	3000		.369	.883	5.5	G
SRHLA-4	1	4494	.	.	15000	.	.	1.10	.	.
DRHLA-4	2	4494	.	.	15000	.	.	1.995	.	.

TWISTED PAIR, TELEPHONE, RADIO, SHIELDED CABLE - ARMORED AND UNARMORED

TYPE	SIZE OF STUFFING TUBE	MINIMUM RADIUS OF BEND-INCHES	OVERALL DIAMETER-INCHES	ESTIMATED WEIGHT PER FOOT (LBS)	CHARACTERISTICS	CM AREA/ COND.	NUMBER OF SHIELDED PAIRS	TYPE
TTRSA-2	E	5.0	.740	.290	(Sometimes used as Radio Frequency cable)	1119	2	TTRSA-2
TTRSA-4	F	5.5	.800	.385		1119	4	TTRSA-4
TTRSA-6	J	6.0	.940	.460	Maximum voltage AC between conductors - 300 (500v DC)	1119	6	TTRSA-6
TTRSA-8	K	6.5	1.050	.510		1119	8	TTRSA-8
TTRSA-10	K	7.0	1.140	.590		1119	10	TTRSA-10
TTRSA-12	L	7.5	1.160	.650		1119	12	TTRSA-12
TTRSA-16	M	8.0	1.250	.750	Surge Impedance of a pair = 76 ohms	1119	16	TTRSA-16
TTRS-2	D		.680	-	Maximum Capac. of a pair = 25 MMF/ft at 25°C	1119	2	TTRS-2
TTRS-4	E		.740	.160		1119	4	TTRS-4
TTRS-6	G		.880	.315		1119	6	TTRS-6
TTRS-8	J		.990	.450	Maximum Resistance per Conductor (coated) per foot = .0109 ohm at 25°C	1119	8	TTRS-8
TTRS-10	K		1.080	.500		1119	10	TTRS-10
TTRS-12	K		1.100	.560		1119	12	TTRS-12
TTRS-16	L		1.190	.675		1119	16	TTRS-16

HEAT, FLAME, OIL RESISTANT, REPEATED FLEXING SERVICE

TYPE	NUMBER OF CONDUCTORS	CM AREA/ COND.	MAXIMUM AMPERES RATING AT 40°C AMB.	MAXIMUM AMPERES RATING AT 50°C AMB.	MAXIMUM VOLTAGE DC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	SIZE OF STUFFING TUBE
DCOP-2	2	1608	6	4	300	.00722	.065	.330	A
*DCOP-3	2	2613	12	8	1000	.00443	.099	.425	B
*DCOP-4	2	4121	16	11	1000	.00281	.115	.460	B
*DCOP-6	2	6533	22	16	1000	.00176	.146	.510	C
*DCOP-9	2	9045	29	20	1000	.00127	.167	.570	C
*DCOP-14	2	14070	40	29	1000	.000810	.285	.705	D
*DCOP-23	2	22910	58	41	1000	.000513	.402	.860	G
*DCOP-30	2	30550	72	49	1000	.000382	.606	.960	J
TCOP-2	3	1608	7	5	300	.00722	.049	.345	A
*TCOP-3	3	2613	10	6	1000	.00443	.092	.450	B
*TCOP-4	3	4121	14	9	1000	.00281	.133	.480	B
*TCOP-6	3	6533	19	12	1000	.00176	.174	.550	C
*TCOP-9	3	9045	25	16	1000	.00127	.196	.600	C
*TCOP-14	3	14070	33	21	1000	.000810	.305	.750	E
*TCOP-23	3	22910	48	31	1000	.000513	.518	.900	G
*TCOP-30	3	30550	75	43	1000	.000278	.958	1.250	L
*FCOP-3	4	2613	8	5	1000	.00443	.127	.480	B
*FCOP-4	4	4121	13	11	1000	.00281	.162	.550	C
*FCOP-9	4	9045	21	18	1000	.00127	.273	.660	D

* Cables suitable for use through the pressure-proof hull

NOTE: HOF Types replace COP Types

HEAT, FLAME, OIL RESISTANT, REPEATED FLEXING SERVICE

TYPE	NUMBER OF CONDUCTORS	CM AREA/ COND.	MAXIMUM AMPERES RATING AT 48° AMB.	MAXIMUM AMPERES RATING AT 90° AMB.	MAXIMUM VOLTAGE DC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	SIZE OF STUFFING TUBE
*DHOF-3	2	2613	23	21	1000	.00437	.099	.425	B
*DHOF-4	2	4121	30	28	1000	.00281	.115	.460	B
*DHOF-6	2	6533	41	37	1000	.00176	.146	.510	C
*DHOF-9	2	9045	50	45	1000	.00127	.167	.570	C
*DHOF-14	2	14070	60	54	1000	.00081	.285	.705	D
*DHOF-23	2	22910	80	72	1000	.000513	.402	.860	G
*DHOF-30	2	30550	90	83	1000	.000278	.606	.960	J
*THOF-3	3	2613	19	17	1000	.00437	.115	.450	B
*THOF-4	3	4121	25	23	1000	.00281	.133	.480	B
*THOF-6	3	6533	33	31	1000	.00176	.174	.550	C
*THOF-9	3	9045	38	34	1000	.00127	.196	.600	C
*THOF-14	3	14070	50	46	1000	.00081	.336	.750	E
*THOF-23	3	22910	70	64	1000	.000513	.518	.900	G
*FHOF-3	4	2613	17	16	1000	.00437	.127	.480	B
*FHOF-4	4	4121	23	21	1000	.00281	.162	.550	C
*FHOF-9	4	9045	36	34	1000	.00127	.273	.660	D

* Cables suitable for use through the pressure-proof hull
NOTE: HOF Types replace COP Types

HEAT, FLAME, OIL RESISTANT, REPEATED FLEXING SERVICE

TYPE	NUMBER OF CONDUCTORS	CM AREA/ COND.	INDIVIDUAL MAX AMPS	AVERAGE AMPS AT 40°C AMB	INDIVIDUAL MAX AMPS	AVERAGE AMPS AT 50°C AMB	MAXIMUM VOLTAGE DC BETWEEN COND.	MAXIMUM CONDUCTOR RESISTANCE PER FOOT AT 25°C	ESTIMATED WEIGHT PER FOOT (LBS)	OVERALL DIAMETER-INCHES	SIZE OF STUFFING TUBE
MCOP-7	7	2613	8	5	6	4	1000	.00437	.200	.627	D
MCOP-10	10	2613	8	5	6	4	1000	.00437	.286	.795	E
MCOP-14	14	2613	8	5	6	4	1000	.00437	.377	.844	G
MCOP-19	19	2613	8	5	6	4	1000	.00437	.480	.995	J
MCOP-22	22	2613	8	4	6	3	1000	.00437	.649	1.070	K
MCOP-26	26	2613	8	4	6	3	1000	.00437	.700	1.160	L
MCOP-30	30	2613	8	4	6	3	1000	.00437	.762	1.190	L
MCOP-37	37	2613	8	4	6	3	1000	.00437	.889	1.290	M
MCOP-44	44	2613	8	3	6	2	1000	.00437	1.111	1.420	N
MCOS-2	2	1608	5	5	4	4	1000	.00708	.126	.460	B
MCOS-4	4	1608	5	3	4	2	1000	.00708	.162	.510	C
MCOS-6	6	1005	2.5	1	2	1	500	.0114	.102	.465	B
MCOS-7	7	1608	5	2.5	4	1.5	1000	.00708	.230	.595	C
MHFF-2	2(PR)	2613	11	9	9	8	1000	.00437	.107	.460	B
MHFF-4	4	2613	11	8	9	7	1000	.00437	.152	.520	C
*MHFF-7	7	2613	11	7	9	6	1000	.00437	.197	.627	D
*MHFF-10	10	2613	11	7	9	6	1000	.00437	.300	.795	F
*MHFF-14	14	2613	11	7	9	6	1000	.00437	.386	.844	G
*MHFF-19	19	2613	11	7	9	6	1000	.00437	.502	.995	J
*MHFF-24	24	2613	11	7	9	6	1000	.00437	.672	1.120	K
*MHFF-30	30	2613	11	7	9	6	1000	.00437	.793	1.194	L
*MHFF-37	37	2613	11	5	9	4	1000	.00437	.914	1.290	M
*MHFF-44	44	2613	11	4	9	3	1000	.00437	1.130	1.420	N

* Cables suitable for use through a pressure-proof hull

STEEL STUFFING TUBE INFORMATION

TUBE SIZE	TUBE CLEARANCE DRILL SIZE (INCHES)	ID GLAND NUT (INCHES)
A	.562	.406
B	.687	.515
C	.812	.640
D	.937	.750
E	1.00	.812
F	1.00	.843
G	1.125	.953
J	1.250	1.062
K	1.375	1.171
L	1.437	1.265
M	1.562	1.406
N	1.750	1.515
P	1.875	1.625
R	2.0	1.750
S	2.125	1.875
T	2.375	2.062
V	2.500	2.187
W	2.687	2.312
X	2.812	2.5
Y	2.937	2.609
Z	3.125	2.781
AA	3.187	2.875
BB	3.437	3.125

COLOR CODE FOR NAVY TYPE TWISTED PAIR TELEPHONE WIRES
(Synthetic Insulated)

Pair No.	One Conductor	Other Conductor	Pair No.	One Conductor	Other Conductor
1	White	Black	31	Orange	Green
2	Red	"	32	Blue	"
3	Green	"	33	Brown	"
4	Orange	"	34	Gray	"
5	Blue	"	35	Yellow	"
6	Brown	"	36	Purple	"
7	Gray	"	37	Tan	"
8	Yellow	"	38	Pink	"
9	Purple	"	39	Blue	Orange
10	Tan	"	40	Brown	"
11	Pink	"	41	Gray	"
12	Red	White	42	Yellow	"
13	Green	"	43	Purple	"
14	Orange	"	44	Tan	"
15	Blue	"	45	Pink	"
16	Brown	"	46	Brown	Blue
17	Gray	"	47	Gray	"
18	Yellow	"	48	Yellow	"
19	Purple	"	49	Purple	"
20	Tan	"	50	Tan	"
21	Pink	"	51	Pink	"
22	Green	Red	52	Gray	Brown
23	Orange	"	53	Yellow	"
24	Blue	"	54	Purple	"
25	Brown	"	55	Tan	"
26	Gray	"	56	Pink	"
27	Yellow	"	57	Yellow	Gray
28	Purple	"	58	Purple	"
29	Tan	"	59	Tan	"
30	Pink	"	60	Pink	"

NAVY STANDARD COLOR CODE FOR CONDUCTORS

COLOR CODE USED IN MARINE ELECTRICAL IC and FC CABLES NAVY TYPE			
Wire No.	Base Color	Tracer Color	Tracer Color
1	Black		
2	White		
3	Red		
4	Green		
5	Orange		
6	Blue		
7	White	Black	
8	Red	Black	
9	Green	Black	
10	Orange	Black	
11	Blue	Black	
12	Black	White	
13	Red	White	
14	Green	White	
15	Blue	White	
16	Black	Red	
17	White	Red	
18	Orange	Red	
19	Blue	Red	
20	Red	Green	
21	Orange	Green	
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue
37	White	Red	Blue
38	Brown		
39	Brown	Black	
40	Brown	White	
41	Brown	Red	
42	Brown	Green	
43	Brown	Orange	
44	Brown	Blue	

DECIBEL CONVERSION CHART

db	NEGATIVE VALUES (ratios are less than unity)		POSITIVE VALUES (ratios are greater than unity)	
	Voltage Ratio	Power Ratio	Voltage Ratio	Power Ratio
0.0	1.000	1.000	1.000	1.000
0.1	.9886	.9772	1.012	1.023
0.2	.9772	.9550	1.023	1.047
0.3	.9661	.9333	1.035	1.072
0.4	.9550	.9120	1.047	1.096
0.5	.9441	.8913	1.059	1.122
0.6	.9333	.8710	1.072	1.148
0.7	.9226	.8551	1.084	1.175
0.8	.9120	.8318	1.096	1.202
0.9	.9016	.8128	1.109	1.230
1.0	.8913	.7943	1.122	1.259
2.0	.7943	.6310	1.259	1.585
3.0	.7079	.5012	1.413	1.995
4.0	.6310	.3981	1.585	2.512
5.0	.5623	.3162	1.778	3.162
6.0	.5012	.2512	1.995	3.981
7.0	.4467	.1995	2.239	5.012
8.0	.3981	.1585	2.512	6.310
9.0	.3548	.1259	2.818	7.943
10.0	.3162	.1000	3.162	10.00
11.0	.2818	.07943	3.548	12.59
12.0	.2512	.06310	3.981	15.85
13.0	.2239	.05012	4.467	19.95
14.0	.1995	.03981	5.012	25.12
15.0	.1778	.03162	5.623	31.62
16.0	.1585	.02512	6.310	39.81
17.0	.1413	.01995	7.079	50.12
18.0	.1259	.01585	7.943	63.10
19.0	.1122	.01259	8.913	79.43
20.0	.1000	.0100	10.00	100.00
30.0	.0316	.001	31.62	1,000.00
40.0	.010	.0001	100.00	10,000.00
50.0	.0032	.00001	316.20	100,000.00
60.0	.001	.000001	1,000.00	1,000,000.00

LETTER SYMBOLS FOR ELECTRON TUBE NOTATION

Grid potential	E_g	e_g
Grid current	I_g	i_g
Grid conductance	G_g	
Grid resistance	r_g	
Grid bias voltage	E_c	
Plate potential	E_p	e_p
Plate current	I_b	I_p i_p
Plate conductance	G_p	
Plate resistance	r_p	
Plate supply voltage	E_b	
Cathode current	I_c	
Emission current	I_s	
Mutual conductance	G_m	
Amplification factor	μ	
Filament terminal voltage	E_f	
Filament current	I_f	
Grid-plate capacitance	C_{gp}	
Grid-cathode capacitance	C_{gk}	
Plate-cathode capacitance	C_{pk}	
Grid capacitance (input)	C_g	
Plate capacitance (output)	C_p	

NOTE: Small letters refer to instantaneous values.

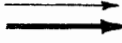







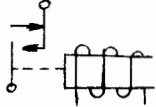

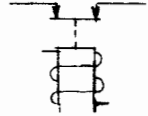
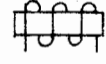

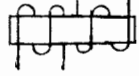

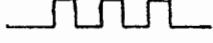

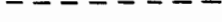
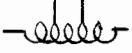
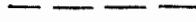

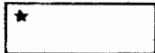
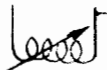

	ARROW DETAIL		AIR CORE TRANSFORMER
	MAKE RELAY CONTACT. CIRCLE INDICATES MOVABLE ARM.		VARIABLE MUTUAL INDUCTOR
	BREAK		SINGLE COIL MAGNETIC CORE - CHOKE
	TRANSFER S.P.D.T.		TRANSFORMER - MAGNETIC CORE. DOTS INDICATE SAME POLARITY
	COMBINATION. BROKEN LINE AND DOT INDICATE MECHANICAL LINKAGE.		SHIELDED TRANSFORMER
	DOUBLE CONTACT BREAK		RELAY - SINGLE WINDING INDUCTIVE WINDING USED WITH SEQUENCE CONTACTS. SHOW ONLY 2 OR 3 TURNS.
	NORMALLY OPEN CONTACTS (DE-ENERGIZED) PRIMARY POWER CONTROL THE LINE REPRESENTING CONTACTS SHALL BE 1-1/4 TIMES WIDTH OF GAP		RELAY - DOUBLE WINDING
	NORMALLY CLOSED CONTACTS (DE-ENERGIZED)		SPACE HEATER ELEMENT OR THERMOSTAT HEATER.
	SINGLE COIL (AIR CORE) INDUCTOR. SHALL IN GENERAL BE 4 TURNS.		SHIELDING - GENERAL. SPACES AND LINES EQUAL.
	AUTO TRANSFORMER		ENCLOSURE - UNIT, STAGE, CABINET, ETC. LINES TWICE SPACES.
	SHIELDED AIR COIL		*INDICATE TYPE OF APPARATUS REPRESENTED BY BLOCK
	VARIABLE OR ADJUSTABLE AIR COIL		GROUND

Figure 18-1. Electrical Symbols

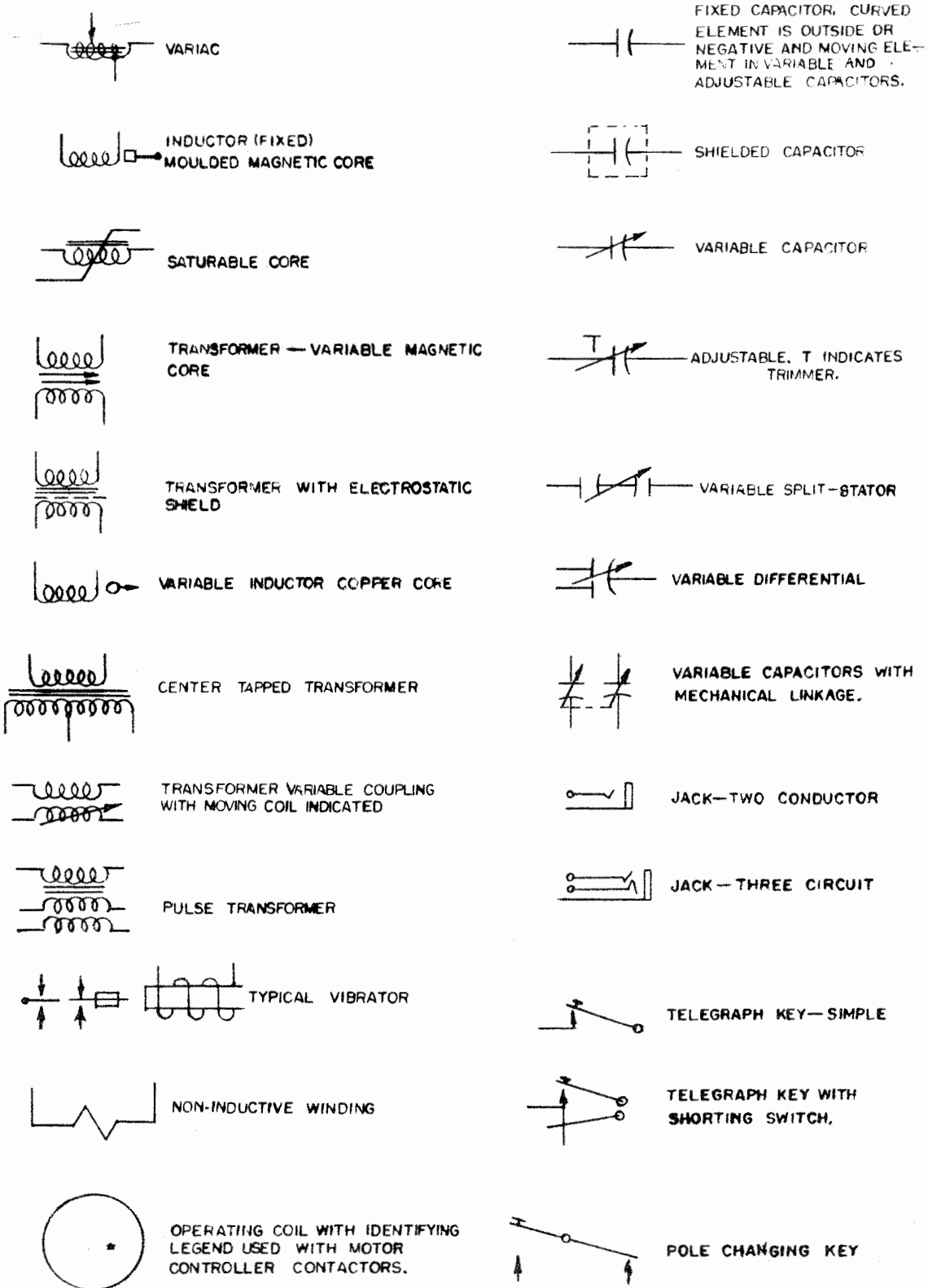


Figure 18-1. Electrical Symbols (Cont'd)

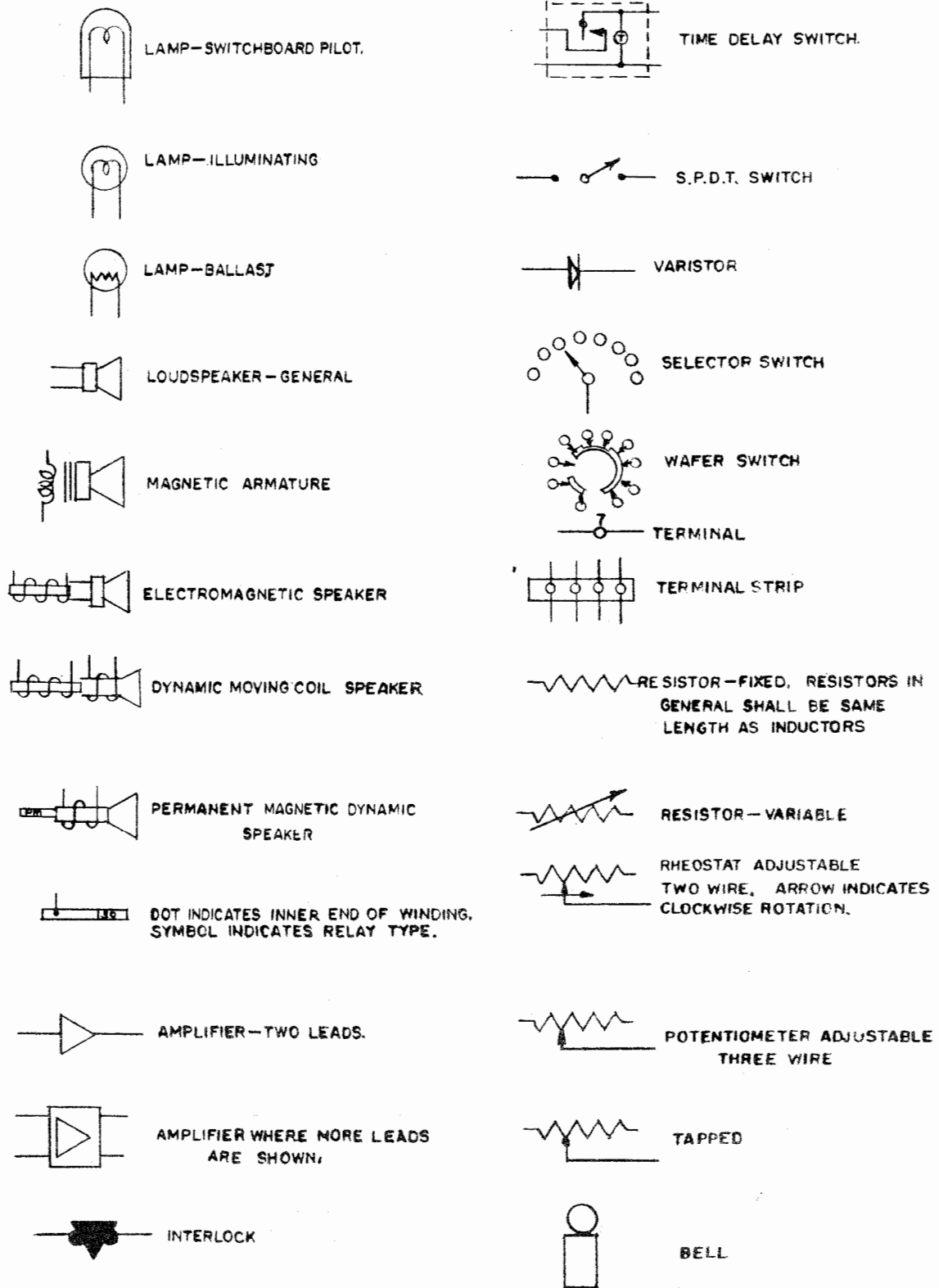


Figure 18-1. Electrical Symbols (Cont'd)

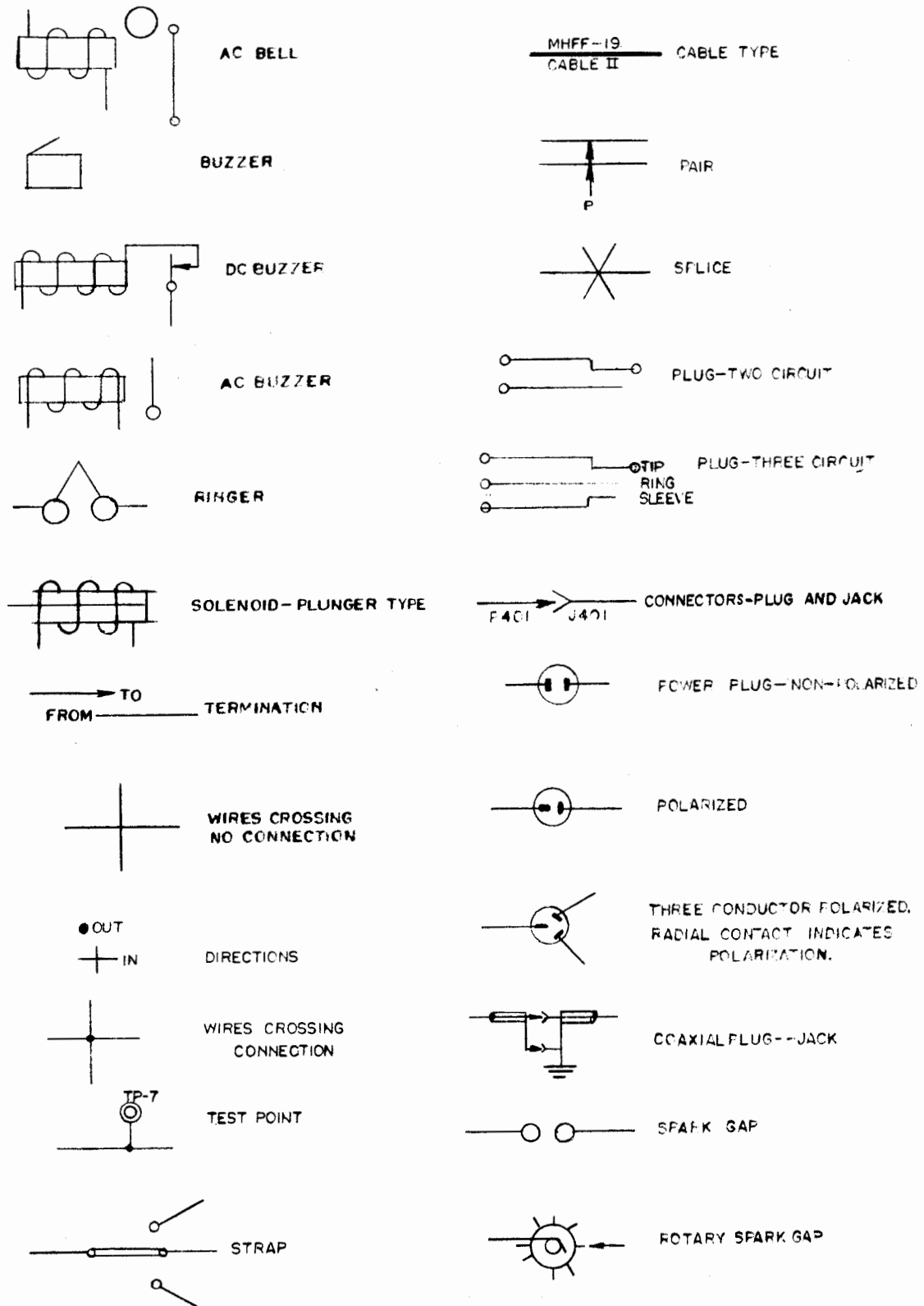
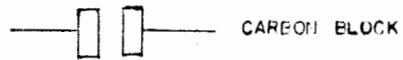
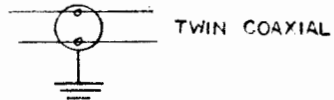


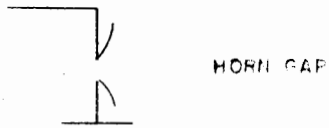
Figure 18-1. Electrical Symbols (Cont'd)



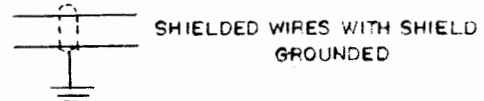
CARBON BLOCK



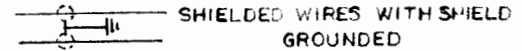
TWIN COAXIAL



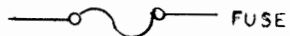
HORN GAP



SHIELDED WIRES WITH SHIELD GROUNDING



SHIELDED WIRES WITH SHIELD GROUNDING



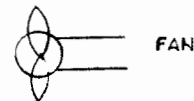
FUSE



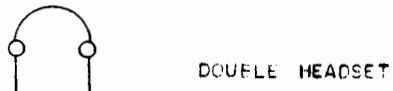
BLOWER



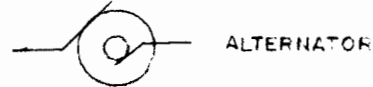
RECEIVER



FAN



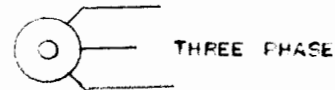
DOUBLE HEADSET



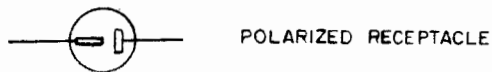
ALTERNATOR



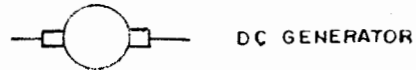
POWER RECEPTACLE NON-POLARIZED



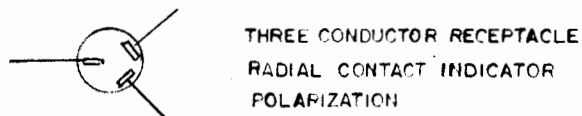
THREE PHASE



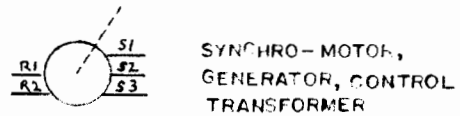
POLARIZED RECEPTACLE



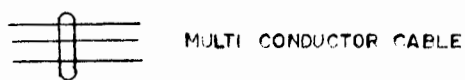
DC GENERATOR



THREE CONDUCTOR RECEPTACLE RADIAL CONTACT INDICATOR POLARIZATION



SYNCHRO-MOTOR, GENERATOR, CONTROL TRANSFORMER



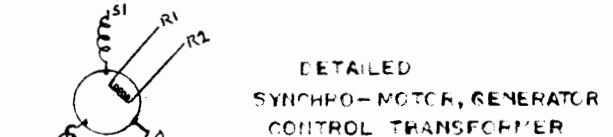
MULTI CONDUCTOR CABLE



SYNCHRO-DIFFERENTIAL, DIFFERENTIAL GENERATOR



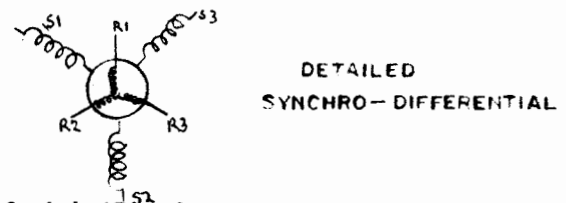
TWISTED PAIR



DETAILED SYNCHRO-MOTOR, GENERATOR CONTROL TRANSFORMER



COAXIAL



DETAILED SYNCHRO-DIFFERENTIAL

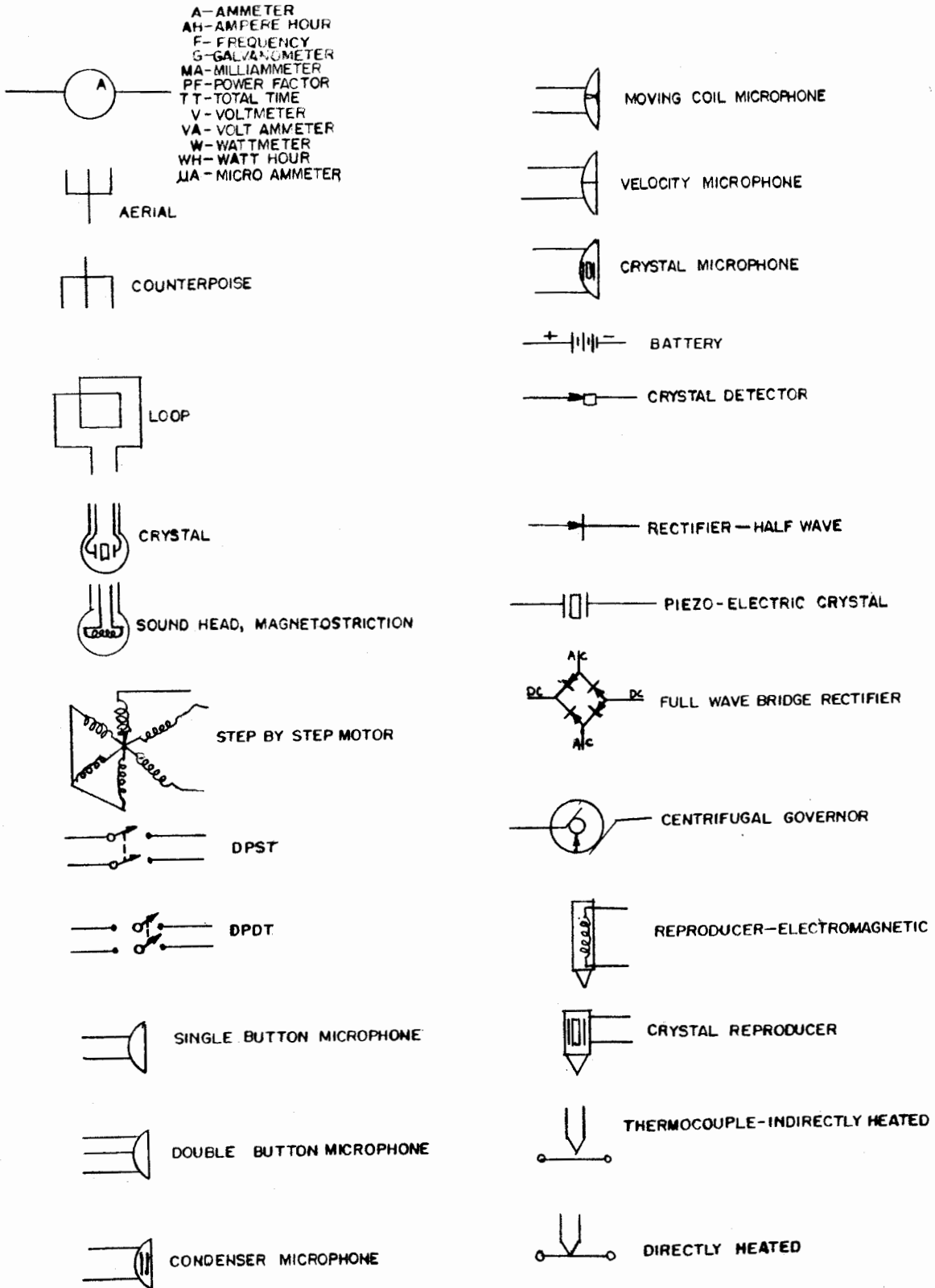


Figure 18-1. Electrical Symbols (Cont'd)

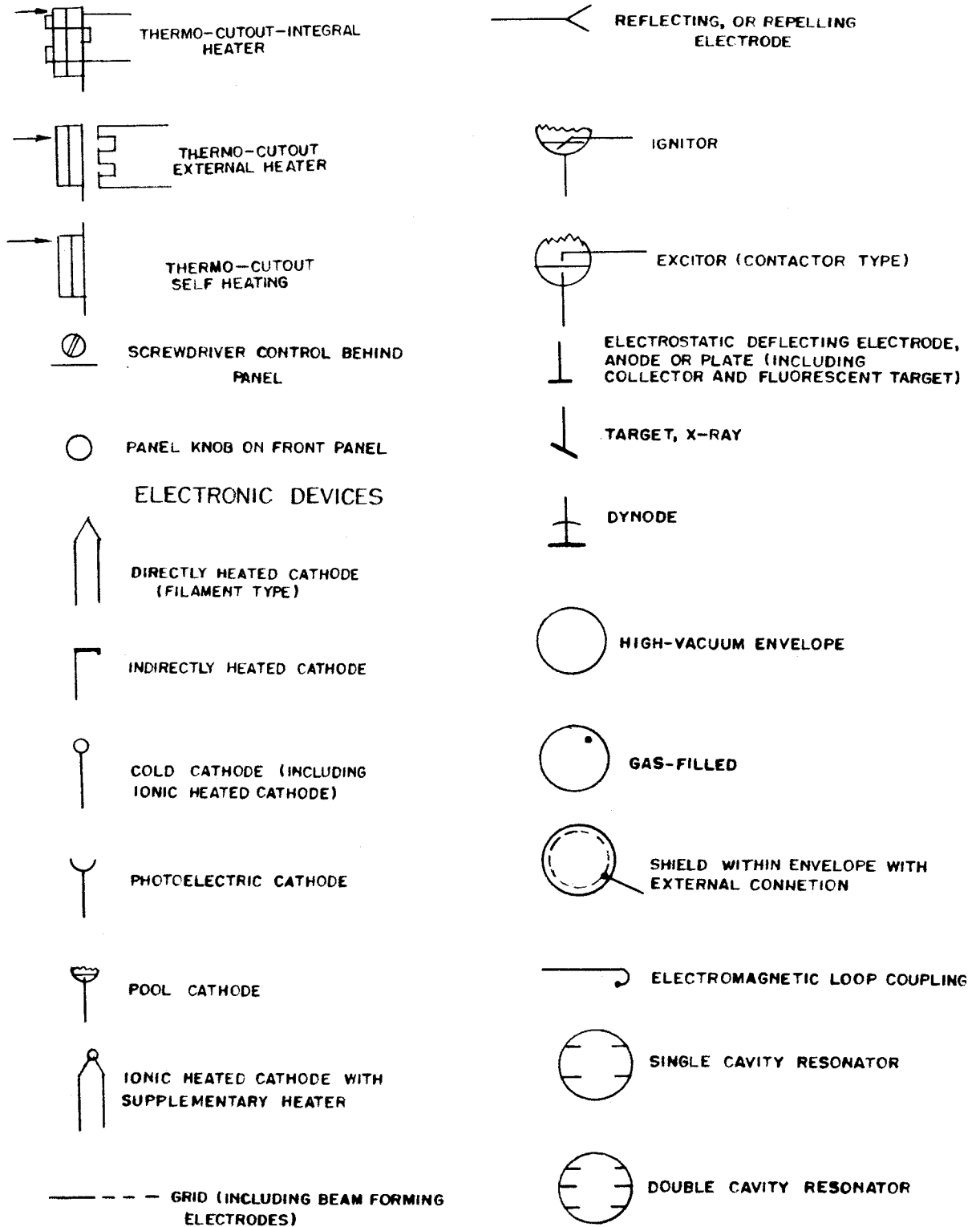


Figure 18-1. Electrical Symbols (Cont'd)

APPLICATIONS

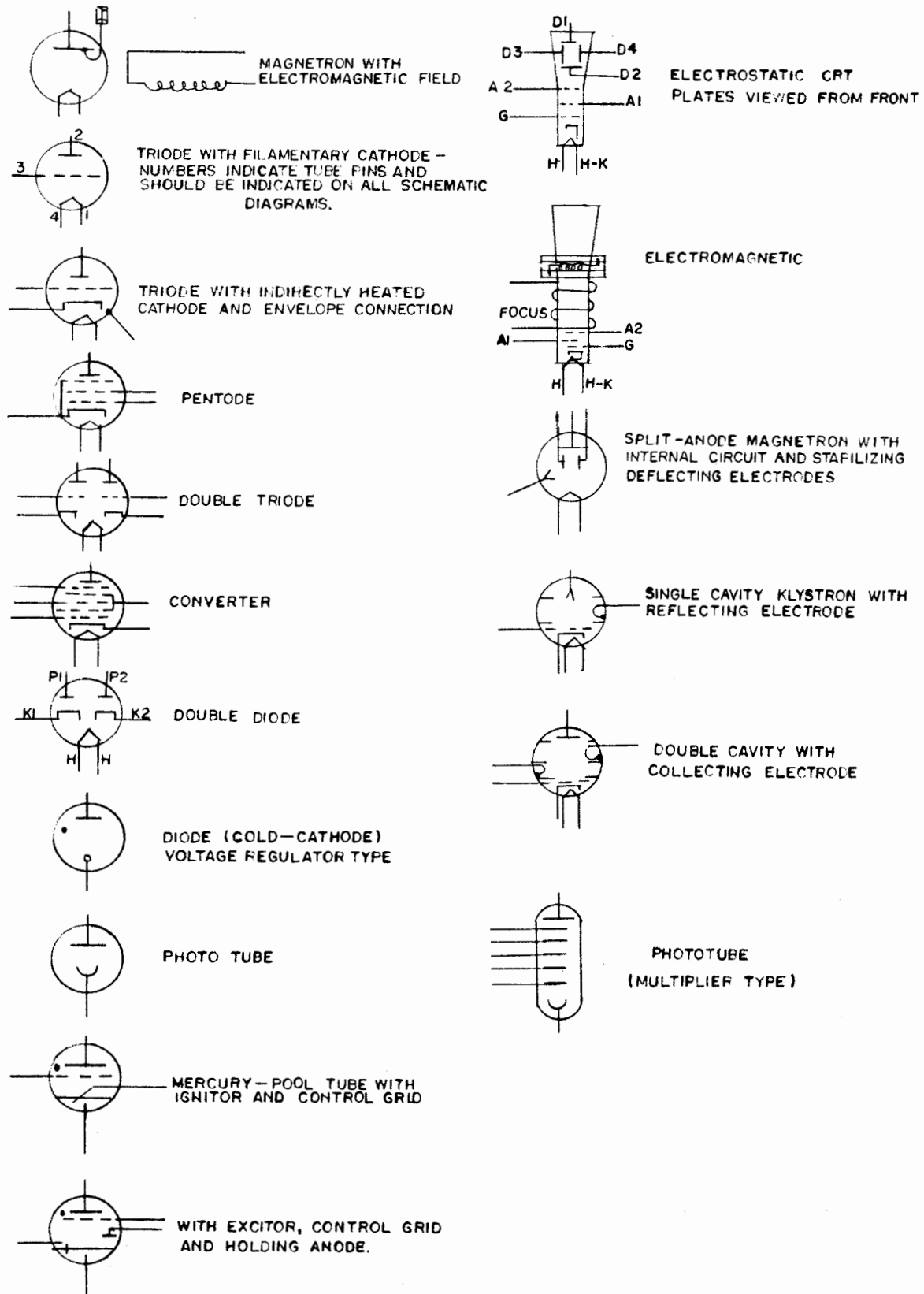


Figure 18-1. Electrical Symbols (Cont'd)

COLOR CODES FOR TRANSFORMER LEADS

RADIO POWER TRANSFORMERS

Primary	Black
If Tapped:	
Common	Black
Tap	Black-Yellow
Finish	Black-Red
AMPLIFIER	
Filament No. 1	Green
Center Tap	Green-Yellow
Filament No. 2	Brown
Center Tap	Brown-Yellow
Filament No. 3	Slate
Center Tap	Slate-Yellow
RECTIFIER	
Plate	Red
Center Tap	Red-Yellow
Filament	Yellow
Center Tap	Yellow-Blue

AUDIO FREQUENCY TRANSFORMERS

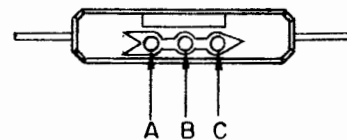
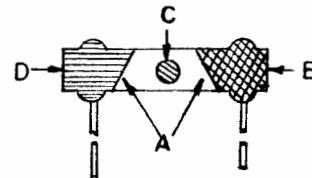
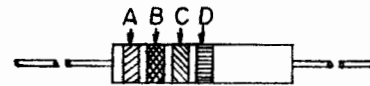
PRIMARY	SINGLE	PUSH-PULL
Plate	Blue	Blue
B+	Red	Red
Plate	-	Blue or Brown *
SECONDARY		
SECONDARY	SINGLE	PUSH-PULL
Grid(or high side of moving coil)	Green	Green
Return (or low side of moving coil)	Black	Black
Grid	-	Green or Yellow *

* The brown and yellow colors are used to indicate the starts of the windings, but only when polarity must be indicated. In an output transformer, the black lead is the start of the secondary.

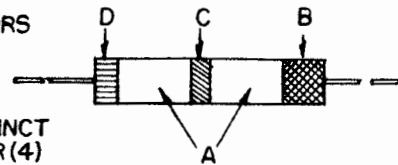
COLOR CODES FOR RESISTORS

COLOR CODES ARE APPLIED ON THE BODY OF WIRE LEAD TERMINAL RESISTORS TO DESIGNATE THE VALUE IN OHMS AS WELL AS THE TOLERANCE, OF THE RESISTANCE. THE VARIOUS COLORS USED INDICATE SPECIFIC VALUES BOTH FOR THE JAN AND RMA CODES IN ACCORDANCE WITH THE FOLLOWING TABLE:

COLOR	SIGNIFICANT FIGURE OR NO. OF ZEROS	DECIMAL MULTIPLIER
BLACK	0	1
BROWN	1	10
RED	2	100
ORANGE	3	1,000
YELLOW	4	10,000
GREEN	5	10 ⁵
BLUE	6	10 ⁶
VIOLET	7	10 ⁷
GRAY	8	10 ⁸
WHITE	9	10 ⁹
GOLD	5% TOL.	0.1
SILVER	10% TOL.	0.01
NO COLOR	20% TOL.	—



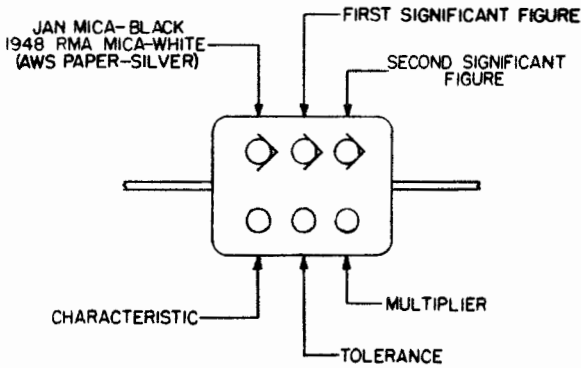
THE METHOD OF FORMING COMBINATIONS OF THESE COLORS IN ORDER TO INDICATE THE VARIOUS RESISTANCE VALUES AND TOLERANCES OF COMPOSITION RESISTORS IS EXPLAINED BELOW. IN GENERAL, THE CODE FOR A PARTICULAR RESISTOR WILL CONSIST OF FOUR (4) DISTINCT COLORED STRIPES OR DOTS, OR A COMBINATION OF FOUR (4) STRIPES AND DOTS. IN EACH OF THE EXAMPLES GIVEN, THE FOLLOWING LEGEND IS USED:



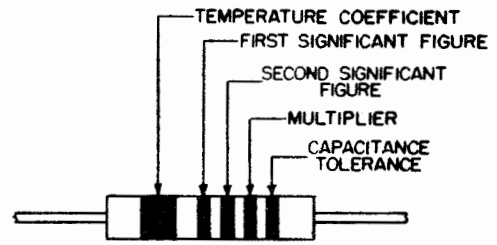
- A- COLOR FOR THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.
- B- COLOR FOR THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.
- C- COLOR FOR THE NUMBER OF ADDITIONAL ZEROS OR THE DECIMAL MULTIPLIER.
- D- COLOR FOR THE TOLERANCE OF THE RESISTANCE VALUE.



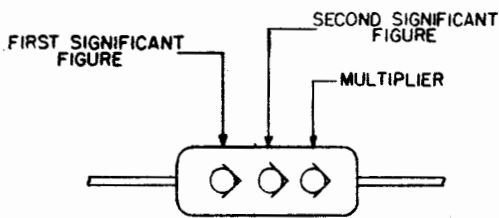
Figure 18-2. Color Codes For Fixed Composition Resistors



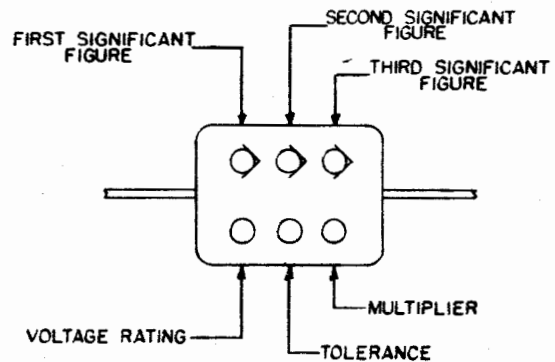
NEW JAN AND RMA STANDARD CODE FOR FIXED MICA CAPACITORS



COLOR CODE FOR FIXED CERAMIC CAPACITORS



RMA 3-DOT CODE (OBSOLETE) FOR MICA CAPACITORS; 500 VOLT ±20% TOLERANCE ONLY



MICA 6-DOT CODE (OBSOLETE) FOR MICA CAPACITORS

Color	Significant Figure	Multiplier	% Tolerance		Voltage Rating RMA (obsolete)	Characteristics				
			JAN and RMA	Ceramic		JAN Letter	JAN Max Capac Drift %	Temp Coefficient Parts/million/°C		
				C > 10uuf				C < 10uuf (in uuf)	JAN	Ceramic
Black	0	1	±20	±20		A		0		
Brown	1	10		±1	100	B		-30		
Red	2	100	±2	±2	200	C	.5	±200	-80	
Orange	3	1000			300	D	.2	±100	-150	
Yellow	4	10,000			400	E	.05	0 to +100	-220	
Green	5			±5	500	F	.025	0 to +50	-330	
Blue	6				600	G	.025	0 to -50	-470	
Violet	7				700				-750	
Gray	8	.01 (Ceramic Only)			800				+30	
White	9	.1		±10	900					
Gold		.1	±5		1000					
Silver		.01	±10		2000					
No color			±20		500					

Figure 18-3. Color Codes For Capacitors

NOMENCLATURE OF FREQUENCY BANDS

FREQUENCY SUBDIVISION	FREQUENCY RANGE	METER RANGE
VLF - Very Low Frequency	Below 30 kc	Above 10,000 meters
LF - Low Frequency	30 - 300 kc	10,000 - 1,000 meters
MF - Medium Frequency	300 - 3,000 kc	1,000 - 100 meters
HF - High Frequency	3,000 - 30,000 kc	100 - 10 meters
VHF - Very High Frequency	30 - 300 mc	10 - 1 meter
UHF - Ultra High Frequency	300 - 3,000 mc	1 meter - 10 cms
SHF - Super High Frequency	3,000 - 30,000 mc	10 cms - 1 cm
EHF - Extremely High Frequency	30,000 - 300,000 mc	1 cm - 1 mm

PRONOUNCING ALPHABET
(COMMUNICATIONS)

LETTER	DESIGNATING WORD	LETTER	DESIGNATING WORD
A	ABLE	N	NAN
B	BAKER	O	OBOE
C	CHARLIE	P	PETER
D	DOG	Q	QUEEN
E	EASY	R	ROGER
F	FOX	S	SUGAR
G	GEORGE	T	TARE
H	HOW	U	UNCLE
I	ITEM	V	VICTOR
J	JIG	W	WILLIAM
K	KING	X	X-RAY
L	LOVE	Y	YOKE
M	MIKE	Z	ZEBRA

STATIONS AND FREQUENCIES USED FOR TIME CHECKS

Universal Time or Greenwich Civil Time	NSS Annapolis	NSS Annapolis	NSS Annapolis	NSS Annapolis	NSS Annapolis	NPG Mare Island	NPM Pearl Harbor	NPM Pearl Harbor	Balboa
0	122	4390	9425	12630	17,000	115			
2	122	4390	9425	12630	17,000				
3				Note 1					
4	122	4390	9425	12630	17,000		Note 2	17370	
5									Note 3
6	122	4390	9425	12630	17,000				
8	122	4390	9425	12630	17,000	Note 1			
10	122	4390	9425	12630	17,000				
12	122	4390	9425	12630	17,000				
14	122	4390	9425	12630	17,000				
15						Note 1			
16	122	4390	9425	12630	17,000		Note 2		
17						115			Note 3
18	122	4390	9425	12630	17,000				
20	122	4390	9425	12630	17,000	115	Note 2	17370	
22	122	4390	9425	12630	17,000				

All frequencies in kc

Note 1: 115, 9255 and 12540 kc

Note 2: 113, 4525, 9050, 13575, 21990 kc

Note 3: 148, 5005, 11080 kc

FREQUENCY ALLOCATIONS
(10 kilocycles to 10,500 megacycles)

KILOCYCLES SERVICE		KILOCYCLES SERVICE		KILOCYCLES SERVICE	
10-14	Radio navigation*	2300-2495	Broadcasting, fixed, mobile	6525-6685	Aeronautical mobile*
14-70	Fixed*, Maritime mobile*	2495-2505	Standard Frequency	6685-6765	Aeronautical mobile*
70-90	Fixed, Maritime mobile	2505-2850	Fixed, mobile	6765-7000	Fixed*
90-110	Fixed*, Maritime mobile*, Radio navigation*	2850-3025	Aeronautical mobile*	7000-7100	Amateur*
110-130	Fixed, Maritime mobile	3025-3155	Aeronautical mobile*	7100-7300	Amateur
130-150	Fixed, Maritime mobile	3155-3200	Fixed*, mobile except aeronautical mobile*	7300-8195	Fixed*
150-160	Fixed, Maritime mobile	3200-3230	Broadcasting*, Fixed*, mobile except aeronautical mobile*	8195-8815	Maritime mobile*
160-200	Fixed	3230-3400	Broadcasting*, fixed*, mobile except aeronautical mobile*	8815-8965	Aeronautical mobile*
200-285	Aeronautical mobile, Aeronautical navigation	3400-3500	Aeronautical mobile*	8965-9040	Aeronautical mobile
285-325	Maritime radio navigation (radio beacons)	3500-4000	Amateur, fixed, mobile except aeronautical mobile	9040-9500	Fixed*
325-405	Aeronautical mobile*, Aeronautical navigation*	4000-4063	Fixed*	9500-9775	Broadcasting*
405-415	Aeronautical mobile, Aeronautical navigation, Maritime navigation, (radio direction finding)	4063-4438	Maritime mobile*	9775-9995	Fixed*
415-490	Maritime mobile*	4438-4650	Fixed, mobile except aeronautical mobile	9995-10005	Standard Frequency*
490-510	Mobile (distress and calling)*	4650-4700	Aeronautical mobile*	10005-10100	Aeronautical mobile*
510-525	Mobile	4700-4750	Aeronautical mobile*	10100-11175	Fixed*
525-535	Mobile	4750-4850	Broadcasting, fixed	11175-11275	Aeronautical mobile*
535-1605	Broadcasting*	4850-4995	Broadcasting*, fixed*, land mobile*	11275-11400	Aeronautical mobile*
1605-1800	Aeronautical radio navigation, Fixed, mobile	4995-5005	Standard, frequency	11400-11700	Fixed*
1800-2000	Amateur; fixed, mobile except aeronautical mobile radio navigation	5005-5060	Broadcasting*, fixed*,	11700-11975	Broadcasting*
2000-2065	Fixed, mobile	5060-5250	Fixed*	11975-12330	Fixed*
2065-2105	Maritime mobile	5250-5450	Fixed, land mobile	12330-13200	Maritime
2105-2300	Fixed, mobile	5450-5480	Aeronautical mobile	13200-13260	Aeronautical mobile*
		5480-5680	Aeronautical mobile*	13360-14000	Fixed*
		5680-5730	Aeronautical mobile*	14000-14350	Amateur*
		5730-5950	Fixed*	14350-14990	Fixed*
		5950-6200	Broadcasting*	14990-15010	Standard Frequency*
		6200-6525	Maritime mobile*	15010-15100	Aeronautical mobile*
				15100-15450	Broadcasting*
				15450-16460	Fixed*
				16460-17360	Maritime mobile*
				17360-17700	Fixed*
				17700-17900	Broadcasting*
				17900-17970	Aeronautical mobile*
				17970-18030	Aeronautical mobile*
				18030-19990	Fixed*

* World-Wide Allocation

FREQUENCY ALLOCATIONS
(10 kilocycles to 10,500 megacycles)

KILOCYCLES SERVICE	MEGACYCLES SERVICE	MEGACYCLES SERVICE
19990-20010 Standard Frequency*	29.7-44 Fixed, mobile	585-610 Broadcasting
20010-21000 Fixed*	44-50 Broadcasting, fixed, mobile	610-940 Broadcasting*
21000-21450 Amateur	50-54 Amateur	940-960 Fixed
21450-21750 Broadcasting	54-72 Broadcasting, fixed mobile	960-1215 Aeronautical radio navigation*
21750-21850 Fixed*	72-76 Fixed, mobile	1215-1300 Amateur*
21850-22000 Aeronautical fixed, aeronautical mobile*	76-88 Broadcasting, fixed, mobile	1300-1660 Aeronautical radio navigation
22000-22720 Maritime mobile*	88-100 Broadcasting*	1660-1700 Meteorological aids (radiosonde)
22720-23200 Fixed*	100-108 Broadcasting	1700-2300 Fixed*, mobile*
23200-23350 Aeronautical fixed*, Aeronautical mobile*	108-118 Aeronautical radio navigation*	2300-2450 Amateur*
23350-24990 Fixed* land mobile*	118-132 Aeronautical mobile*	2450-2700 Fixed*, mobile*
24990-25010 Standard Frequency*	132-144 Fixed, mobile	2700-2900 Aeronautical radio navigation*
25010-25600 Fixed*, mobile except aeronautical mobile	144-146 Amateur*	2900-3300 Radio navigation
25600-26100 Broadcasting*	146-148 Amateur	3300-3500 Amateur
26100-27500 Fixed*, mobile except aeronautical mobile*	148-174 Fixed, mobile	3500-3900 Fixed, mobile
27500-28000 Fixed, mobile	174-216 Broadcasting, fixed, mobile	3900-4200 Fixed*, mobile*
28000-29700 Amateur*	216-220 Fixed, mobile	4200-4400 Aeronautical radio navigation*
	220-225 Amateur	4400-5000 Fixed*, mobile*
	225-235 Fixed, mobile	5000-5250 Aeronautical radio navigation*
	235-328.6 Fixed*, mobile*	5250-5650 Radio navigation*
	328.6-335.4 Aeronautical radio navigation*	5650-5850 Amateur*
	335.4-420 Fixed*, mobile*	5850-5925 Amateur
	420-450 Aeronautical radio navigation*, amateur*	5925-8500 Fixed*, mobile*
	450-460 Aeronautical radio navigation, fixed, mobile	8500-9800 Radio navigation
	460-470 Fixed*, mobile*	9800-10000 Fixed*, radio navigation
	470-585 Broadcasting*	10000-10500 Amateur*
		above 10,500 not allocated

* World-Wide Allocation

TYPES OF TRANSMISSION

Type of Modulation or Emission	Type of Transmission	Supplementary Characteristics	Symbol
1. Amplitude	Absence of any modulation		A0
	Telegraphy w/o use of modulating audio frequency (on-off keying)		A1
	Telegraphy by the keying of a modulating audio frequency or audio frequencies or by the keying of the modulated emission. (Special case: an unkeyed modulated emission.)		A2
	Telephony	Double sideband, full carrier	A3
		Single sideband, reduced carrier	A3a
		Two independent sidebands, reduced carrier	A3b
	Facsimile		A4
	Television		A5
	Composite transmissions and cases not covered by the above		A9
	Composite transmissions	Reduced carrier	A9c
2. Frequency (or phase) Modulated	Absence of any modulation		F0
	Telegraphy w/o the use of modulating audio frequency (frequency shift keying)		F1
	Telegraphy by the keying of a modulating audio frequency or audio frequencies or by the keying of the modulated emission. (Special case: an unkeyed emission modulated by audio frequency.)		F2
	Telephony		F3
	Facsimile		F4
	Television		F5
	Composite transmissions and cases not covered by the above		F9

TYPES OF TRANSMISSION

Type of Modulation or Emission	Type of Transmission	Supplementary Characteristics	Symbol
3. Pulsed Emissions	Absence of any modulation intended to carry information		P0
	Telegraphy w/o the use of modulating audio frequency		P1
	Telegraphy by the keying of a modulating audio frequency or audio frequencies, or by the keying of the modulated pulse. (Special case: an unkeyed modulated pulse.)	Audio frequency or audio frequencies modulating their pulse in amplitude	P2d
		Audio frequency or audio frequencies modulating the width of the pulse	P2e
		Audio frequency or frequencies modulating the phase or position of the pulse	P2f
		AM Pulse	P3d
	Telephony	Width modulated Pulse	P3e
		Phase (or position) modulated pulse	P3f
	Composite transmissions and cases not covered by the above		

TAP DRILL SIZES

Fractional Size Drills (Inches)	Wire Gauges and Letter Size Drills	TAP SIZES		Fractional Size Drills (Inches)	Wire Gauges and Letter Size Drills	TAP SIZES		
		Size of Thread	Threads Per In.			Size of Thread	Threads Per In.	
1/64	80			7/64	38	5	40	
	79				37	5	44	
					36	6	32	
	78					35		
	77					34		
	76					33	6	40
	75					32		
	74					31		
	73				1/8	30		
	72					29	8	32,36
1/32	71			9/64	28			
	70					27		
	69					26		
	68					25		
						24		
	67					23		
	66				5/32	22		
	65					21	10	32
	64					20		
	63					19		
3/64	62			11/64	18			
	61					17		
	60					16	12	24
	59					15		
	58					14	12	28
	57					13		
	56				3/16	12		
						11		
						10		
						9		
1/16				13/64	8			
					7	1/4	20	
	55					6		
	54					5		
	53	1	64,72			4		
						3	1/4	28
					7/32	2		
						1		
						A		
5/64								
	47	3	48					
	46							
	45	3	56					
	44							
	43	4	40					
	42	4	48					
3/32	41							
	40							
	39							

TAP DRILL SIZES

Fractional Size Drills (Inches)	Wire Gauges and Letter Size Drills	TAP SIZES		Fractional Size Drills (Inches)	Wire Gauges and Letter Size Drills	TAP SIZES				
		Size of Thread	Threads Per In.			Size of Thread	Threads Per In.			
15/64	B	5/16	18	7/16		1/2	20			
1/4	C									
	D									
	E									
	F									
17/64	G			5/16				24	29/64	9/16	12
9/32	H									
	I									
	J									
	K									
19/64	L	3/8	16		15/32	9/16	18			
5/16	M									
	N									
	O									
	P									
21/64	Q			3/8	24			17/32	5/8	11
11/32	R									
	S									
	T									
	23/64	U	7/16			14	35/64	5/8			18
3/8	V									
	W									
	X									
	25/64	Y		7/16	20		37/64		7/8	9
13/32	Z									
	27/64		1/2			13	19/32	1 1/8			7

DECIMAL EQUIVALENTS OF AN INCH

Fractions of an Inch	Decimals of an Inch	Millimeters	Fractions of an Inch	Decimals of an Inch	Millimeters
1/64	.015625	0.397	33/64	.515625	13.097
1/32	.031250	0.794	17/32	.531250	13.494
3/64	.046875	1.191	35/64	.546875	13.891
1/16	.062500	1.588	9/16	.562500	14.288
5/64	.078125	1.984	37/64	.578125	14.684
3/32	.093750	2.381	19/32	.593750	15.081
7/64	.109375	2.778	39/64	.609375	15.478
1/8	.125000	3.175	5/8	.625000	15.875
9/64	.140625	3.572	41/64	.640623	16.272
5/32	.156250	3.969	21/32	.656250	16.669
11/64	.171875	4.366	43/64	.671875	17.066
3/16	.187500	4.763	11/16	.687500	17.463
13/64	.203125	5.159	45/64	.703125	17.859
7/32	.218750	5.556	23/32	.718750	18.256
15/64	.234375	5.953	47/64	.734375	18.653
1/4	.250000	6.350	3/4	.750000	19.050
17/64	.265625	6.747	49/64	.765625	19.447
9/32	.281250	7.144	25/32	.781250	19.844
19/64	.296875	7.541	51/64	.796875	20.241
5/16	.312500	7.938	13/16	.812500	20.638
21/64	.328125	8.334	53/64	.828125	21.034
11/32	.343750	8.731	27/32	.843750	21.431
23/64	.359375	9.128	55/64	.859375	21.828
3/8	.375000	9.525	7/8	.875000	22.225
25/64	.390625	9.922	57/64	.890625	22.622
13/32	.406250	10.319	29/32	.906250	23.019
27/64	.421875	10.716	59/64	.921875	23.416
7/16	.437500	11.113	15/16	.937500	23.813
29/64	.453125	11.509	61/64	.953125	24.209
15/32	.468750	11.906	31/32	.968750	24.606
31/64	.484375	12.303	63/64	.984375	25.003
1/2	.500000	12.700	1	1.000000	25.400

FORMULA

To Convert	Multiply By
Inches to Millimeters	25.4
Millimeters to Inches	.03937

NATIONAL COARSE AND NATIONAL FINE THREAD

No. or Fractional Size	Threads Per Inch	
	Fine	Coarse
0(0.060)	80	—
1(0.073)	72	64
2(0.086)	64	56
3(0.099)	56	48
4(0.112)	48	40
5(0.125)	44	40
6(0.138)	40	32
8(0.164)	36	32
10(0.190)	32	24
12(0.216)	28	24
1/4	28	20
5/16	24	18
3/8	24	16
7/16	20	14
1/2	20	13
9/16	18	12
5/8	18	11
3/4	16	10
7/8	14	9
1	14	8
1 1/8	12	7
1 1/4	12	7
1 1/2	12	6
1 3/4	12	5
2	12	4 1/2
2 1/4	12	4 1/2
2 1/2	12	4
2 3/4	12	4
3	10	4

DEFINITIONS

Screw Threads

- SCREW THREAD**..... A ridge of uniform section in the form of a helix on the external or internal surface of a cylinder, or in the form of a conical spiral on the external or internal surface of a cone.
- EXTERNAL THREAD**..... A thread on the outside of a member. Example: a threaded machine bolt.
- INTERNAL THREAD**..... A thread on the inside of a member. Example: a threaded hole.
- MAJOR DIAMETER (D)**..... The largest diameter of the thread of the screw or nut. The term "major diameter" replaces the term "outside diameter" as applied to the thread of a screw, and also the term "full diameter" as applied to the thread of a nut.
- PITCH DIAMETER (E) IN**..... **Straight Screw Threads** - is that diameter which lies between two lines on opposite sides of the axis (both lines parallel to this axis) which pass through the threads at points where the Thread Widths (T) equal the Space Widths (S) between threads.
- National Standard Screw Threads** - is the same diameter as that described for a Straight Screw Thread; it may readily be obtained by taking the average of the Major and Minor Diameters.
- MINOR DIAMETER (K)**..... The smallest diameter of the thread of the screw or nut. The term "minor diameter" replaces the term "core diameter" as applied to the thread of a screw, and also the term "inside diameter" as applied to the thread of a nut.
- PITCH (P)**..... The distance from a point on a screw thread to a corresponding point on the next thread measured parallel to the axis. The pitch, in inches, is equal to one (1) over the number of threads per inch $\left(\frac{1}{\text{Threads per In.}}\right)$
- ANGLE OF THREAD (A)**..... The angle included between the sides of the thread (measured in a plane containing the axis).
- HALF ANGLE OF THREAD (a)**..... The angle included between a side of the thread and a line at right angles to the axis (measured in a plane containing the axis).
- HELIX ANGLE (H)**..... The angle made by the helix, or conical spiral, of the thread at the pitch diameter with a plane perpendicular to the axis.

MACHINE BOLTS
Hexagon Head and Nut

NAVAL BRASS
SEMIFINISHED-NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
1/4 INCH DIAMETER, 20 THREADS PER INCH		1/2 INCH DIAMETER, 13 THREADS PER INCH	
43-B-14998-25	3/4	43-B-14998-180	3
43-B-14998-30	1	43-B-14998-185	3 1/2
43-B-14998-35	1 1/4	43-B-14998-190	4
43-B-14998-40	1 1/2	43-B-14998-195	5
43-B-14998-45	2	5/8 INCH DIAMETER, 11 THREADS PER INCH	
43-B-14998-50	2 1/2	43-B-14998-200	1 1/2
43-B-14998-55	3	43-B-14998-205	1 3/4
43-B-14998-60	4	43-B-14998-210	2
5/16 INCH DIAMETER, 18 THREADS PER INCH		43-B-14998-215	2 1/2
43-B-14998-62	3/4	43-B-14998-220	3
43-B-14998-64	1	43-B-14998-225	3 1/2
43-B-14998-65	1 1/4	43-B-14998-230	4
43-B-14998-70	1 1/2	43-B-14998-235	5
43-B-14998-75	2	43-B-14998-240	6
43-B-14998-80	2 1/2	3/4 INCH DIAMETER, 10 THREADS PER INCH	
43-B-14998-85	3	43-B-14998-245	2
3/8 INCH DIAMETER, 16 THREADS PER INCH		43-B-14998-250	2 1/2
43-B-14998-90	3/4	43-B-14998-255	3
43-B-14998-95	1	43-B-14998-260	3 1/2
43-B-14998-100	1 1/4	43-B-14998-265	4
43-B-14998-105	1 1/2	43-B-14998-270	4 1/2
43-B-14998-110	1 3/4	43-B-14998-275	5
43-B-14998-115	2	43-B-14998-280	6
43-B-14998-120	2 1/4	7/8 INCH DIAMETER, 9 THREADS PER INCH	
43-B-14998-125	2 1/2	43-B-14998-285	2
43-B-14998-130	3	43-B-14998-290	2 1/2
43-B-14998-135	3 1/2	43-B-14998-295	3
43-B-14998-140	4	43-B-14998-300	3 1/2
43-B-14998-145	5	43-B-14998-305	4
1/2 INCH DIAMETER, 13 THREADS PER INCH		43-B-14998-310	5
43-B-14998-150	1	1 INCH DIAMETER, 8 THREADS PER INCH	
43-B-14998-155	1 1/4	43-B-14998-315	3
43-B-14998-160	1 1/2	43-B-14998-320	4
43-B-14998-165	1 3/4	43-B-14998-325	5
43-B-14998-170	2	43-B-14998-330	6
43-B-14998-175	2 1/2		

MACHINE BOLTS
Hexagon Head - Without Nut
STEEL - UNCOATED (Black)

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)	Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)
1/4 INCH DIAMETER, 20 THREADS PER INCH			3/8 INCH DIAMETER, 16 THREADS PER INCH		
43-B-70025-10	1/2	1/2	43-B-70025-465	1 3/4	7/8
43-B-70025-15	5/8	5/8	43-B-70025-475	2	1
43-B-70025-20	3/4	1/2	43-B-70025-490	2 1/4	1
43-B-70025-25	7/8	1/2	43-B-70025-500	2 1/2	1
43-B-70025-30	1	3/4	43-B-70025-515	2 3/4	1
43-B-70025-45	1 1/4	3/4	43-B-70025-525	3	1
43-B-70025-50	1 1/2	3/4	43-B-70025-540	3 1/4	1
43-B-70025-65	1 3/4	3/4	43-B-70025-545	3 1/2	1
43-B-70025-75	2	3/4	43-B-70025-555	3 3/4	1
43-B-70025-90	2 1/4	3/4	43-B-70025-565	4	1
43-B-70025-100	2 1/2	3/4	43-B-70025-575	4 1/2	1
43-B-70025-115	2 3/4	3/4	43-B-70025-585	5	1 3/16
43-B-70025-125	3	7/8	43-B-70025-595	5 1/2	1 3/16
43-B-70025-140	3 1/4	7/8	43-B-70025-605	6	1 3/16
43-B-70025-165	4	7/8			
5/16 INCH DIAMETER, 18 THREADS PER INCH			7/16 INCH DIAMETER, 14 THREADS PER INCH		
43-B-70025-215	5/8	5/8	43-B-70025-720	3/4	3/4
43-B-70025-220	3/4	1/2	43-B-70025-730	1	3/4
43-B-70025-225	7/8	1/2	43-B-70025-745	1 1/4	1
43-B-70025-230	1	3/4	43-B-70025-750	1 1/2	1
43-B-70025-245	1 1/4	3/4	43-B-70025-765	1 3/4	1
43-B-70025-250	1 1/2	7/8	43-B-70025-775	2	1 1/4
43-B-70025-265	1 3/4	7/8	43-B-70025-790	2 1/4	1 1/4
43-B-70025-275	2	1	43-B-70025-800	2 1/2	1 1/4
43-B-70025-290	2 1/4	1	43-B-70025-815	2 3/4	1 1/4
43-B-70025-300	2 1/2	1	43-B-70025-825	3	1 1/4
43-B-70025-325	3	1	43-B-70025-840	3 1/4	1 1/4
43-B-70025-340	3 1/4	1	43-B-70025-845	3 1/2	1 1/4
43-B-70025-345	3 1/2	1	43-B-70025-865	4	1 1/4
43-B-70025-365	4	1	43-B-70025-875	4 1/2	1 1/4
			43-B-70025-885	5	1 1/4
			43-B-70025-895	5 1/2	1 1/4
			43-B-70025-905	6	1 1/4
3/8 INCH DIAMETER, 16 THREADS PER INCH			1/2 INCH DIAMETER, 13 THREADS PER INCH		
43-B-70025-415	5/8	5/8	43-B-70025-1015	5/8	5/8
43-B-70025-420	3/4	1/2	43-B-70025-1020	3/4	3/4
43-B-70025-425	7/8	1/2	43-B-70025-1025	7/8	7/8
43-B-70025-430	1	3/4	43-B-70025-1030	1	3/4
43-B-70025-445	1 1/4	3/4			
43-B-70025-450	1 1/2	7/8			

MACHINE BOLTS
Hexagon Head - Without Nut

STEEL - UNCOATED (Black)

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)	Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)
1/2 INCH DIAMETER, 13 THREADS PER INCH			5/8 INCH DIAMETER, 11 THREADS PER INCH		
43-B-70025-1045	1 1/4	1	43-B-70025-1675	2	1 1/4
43-B-70025-1050	1 1/2	1	43-B-70025-1690	2 1/4	1 1/4
43-B-70025-1065	1 3/4	1	43-B-70025-1700	2 1/2	1 1/2
43-B-70025-1075	2	1 1/4	43-B-70025-1725	3	1 1/2
43-B-70025-1090	2 1/4	1 1/4	43-B-70025-1745	3 1/2	1 1/2
43-B-70025-1100	2 1/2	1 1/4	43-B-70025-1765	4	1 1/2
43-B-70025-1115	2 3/4	1 1/4	43-B-70025-1775	4 1/2	1 1/2
43-B-70025-1125	3	1 1/4	43-B-70025-1785	5	1 1/2
43-B-70025-1140	3 1/4	1 1/4	43-B-70025-1795	5 1/2	1 1/2
43-B-70025-1145	3 1/2	1 1/4	43-B-70025-1805	6	1 1/2
43-B-70025-1165	4	1 1/4	43-B-70025-1845	7	1 1/2
43-B-70025-1175	4 1/2	1 1/4	43-B-70025-1885	8	1 13/16
43-B-70025-1180	4 3/4	1 1/4	3/4 INCH DIAMETER, 10 THREADS PER INCH		
43-B-70025-1185	5	1 1/4	43-B-70025-1930	1	1
43-B-70025-1190	5 1/4	1 1/4	43-B-70025-1945	1 1/4	1 1/4
43-B-70025-1195	5 1/2	1 1/4	43-B-70025-1950	1 1/2	1 1/8
43-B-70025-1200	5 3/4	1 1/4	43-B-70025-1965	1 3/4	1 3/8
43-B-70025-1205	6	1 1/2	43-B-70025-1975	2	1 3/8
9/16 INCH DIAMETER, 12 THREADS PER INCH			43-B-70025-1980	2 1/8	1 3/8
43-B-70025-1330	1	3/4	43-B-70025-1990	2 1/4	1 3/8
43-B-70025-1345	1 1/4	1	43-B-70025-2000	2 1/2	1 1/2
43-B-70025-1350	1 1/2	1 1/8	43-B-70025-2010	2 5/8	1 1/2
43-B-70025-1375	2	1 1/4	43-B-70025-2015	2 3/4	1 1/2
43-B-70025-1400	2 1/2	1 1/2	43-B-70025-2020	2 7/8	1 1/2
43-B-70025-1425	3	1 1/2	43-B-70025-2025	3	1 3/4
43-B-70025-1445	3 1/2	1 1/2	43-B-70025-2040	3 1/4	1 3/4
43-B-70025-1465	4	1 1/2	43-B-70025-2045	3 1/2	1 3/4
43-B-70025-1475	4 1/2	1 1/2	43-B-70025-2055	3 3/4	1 3/4
43-B-70025-1485	5	1 1/2	43-B-70025-2065	4	1 3/4
43-B-70025-1495	5 1/2	1 1/2	43-B-70025-2070	4 1/4	1 3/4
43-B-70025-1505	6	1 1/2	43-B-70025-2075	4 1/2	1 3/4
5/8 INCH DIAMETER, 11 THREADS PER INCH			43-B-70025-2080	4 3/4	1 3/4
43-B-70025-1630	1	3/4	43-B-70025-2085	5	1 3/4
43-B-70025-1645	1 1/4	1	43-B-70025-2095	5 1/2	1 3/4
43-B-70025-1650	1 1/2	1 1/8	43-B-70025-2105	6	1 3/4
43-B-70025-1665	1 3/4	1 3/16	43-B-70025-2145	7	1 3/4
			43-B-70025-2185	8	2

MACHINE BOLTS

Hexagon Head - Without Nut

STEEL - UNCOATED (Black)

SEMI-FINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)	Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)
7/8 INCH DIAMETER, 9 THREADS PER INCH			1 1/8 INCH DIAMETER, 7 THREADS PER INCH		
43-B-70025-2250	1 1/2	1 1/8	43-B-70025-3195	5 1/2	2 3/4
43-B-70025-2275	2	1 9/16	43-B-70025-4005	6	2 3/4
43-B-70025-2300	2 1/2	1 9/16	1 1/4 INCH DIAMETER, 7 THREADS PER INCH		
43-B-70025-2315	2 3/4	1 9/16	43-B-70025-4200	2 1/2	2
43-B-70025-2325	3	1 3/4	43-B-70025-4220	2 7/8	2
43-B-70025-2340	3 1/4	1 3/4	43-B-70025-4225	3	2 1/8
43-B-70025-2345	3 1/2	1 3/4	43-B-70025-4245	3 1/2	2 1/8
43-B-70025-2365	4	2	43-B-70025-4265	4	2 1/4
43-B-70025-2375	4 1/2	2	43-B-70025-4275	4 1/2	2 1/4
43-B-70025-2385	5	2	43-B-70025-4285	5	2 3/4
43-B-70025-2395	5 1/2	2	43-B-70025-4295	5 1/2	2 3/4
43-B-70025-2405	6	2	43-B-70025-4305	6	2 3/4
43-B-70025-2445	7	2	43-B-70025-4325	6 1/2	2 3/4
43-B-70025-2485	8	2	43-B-70025-4345	7	2 3/4
43-B-70025-2529	9	2	43-B-70025-4355	7 1/4	2 3/4
1 INCH DIAMETER, 8 THREADS PER INCH			43-B-70025-4365	7 1/2	2 3/4
43-B-70025-2675	2	1 5/8	1 1/2 INCH DIAMETER, 6 THREADS PER INCH		
43-B-70025-2690	2 1/4	1 5/8	43-B-70025-4625	3	2 1/2
43-B-70025-2700	2 1/2	1 3/4	43-B-70025-4645	3 1/2	2 1/2
43-B-70025-2725	3	1 3/4	43-B-70025-4665	4	2 1/2
43-B-70025-2745	3 1/2	1 3/4	43-B-70025-4675	4 1/2	2 1/2
43-B-70025-2765	4	2 1/4	43-B-70025-4685	5	2 3/4
43-B-70025-2775	4 1/2	2 1/4	43-B-70025-4695	5 1/2	2 3/4
43-B-70025-2785	5	2 1/4	43-B-70025-4705	6	3 1/4
43-B-70025-2795	5 1/2	2 1/4	1 3/4 INCH DIAMETER, 5 THREADS PER INCH		
43-B-70025-2805	6	2 1/4	43-B-70025-4945	3 1/2	2 1/2
43-B-70025-2845	7	2 1/4	43-B-70025-4965	4	2 7/8
43-B-70025-2885	8	2 1/4	43-B-70025-4975	4 1/2	2 7/8
43-B-70025-2929	9	2 1/4	43-B-70025-4985	5	2 7/8
1 1/8 INCH DIAMETER, 7 THREADS PER INCH			43-B-70025-4995	5 1/2	2 7/8
43-B-70025-3075	2	1 5/8	43-B-70025-5005	6	3 1/4
43-B-70025-3100	2 1/2	2	43-B-70025-5045	7	3 1/4
43-B-70025-3125	3	2 1/8	43-B-70025-5085	8	3 3/4
43-B-70025-3145	3 1/2	2 1/8			
43-B-70025-3165	4	2 1/4			
43-B-70025-3175	4 1/2	2 1/4			
43-B-70025-3185	5	2 3/4			

MACHINE BOLTS
Hexagon Head and Nut

STEEL - UNCOATED (Black)
SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
1 / 4 INCH DIAMETER, 20 THREADS PER INCH		3/8 INCH DIAMETER, 16 THREADS PER INCH	
43-B-16350	1/2	43-B-16448	2 1/2
43-B-16352	3/4	43-B-16450	3
43-B-16353	7/8	43-B-16452	3 1/2
43-B-16354	1	43-B-16454	4
43-B-16356	1 1/4	43-B-16456	4 1/2
43-B-16358	1 1/2	43-B-16458	5
43-B-16360	1 3/4	43-B-16462	6
43-B-16362	2		
43-B-16364	2 1/2	7/16 INCH DIAMETER, 14 THREADS PER INCH	
43-B-16366	3	43-B-16504	3/4
43-B-16368	3 1/2	43-B-16508	1 1/4
43-B-16370	4	43-B-16510	1 1/2
5/16 INCH DIAMETER, 18 THREADS PER INCH		43-B-16511	1 3/4
43-B-16398	1/2	43-B-16512	2
43-B-16400	3/4	43-B-16522	4 1/2
43-B-16401	7/8	1/2 INCH DIAMETER, 13 THREADS PER INCH	
43-B-16402	1	43-B-16568	5/8
43-B-16403	1 1/4	43-B-16570	3/4
43-B-16404	1 1/2	43-B-16572	1
43-B-16405	1 3/4	43-B-16574	1 1/4
43-B-16406	2	43-B-16576	1 1/2
43-B-16407	2 1/2	43-B-16578	1 3/4
43-B-16409	3	43-B-16580	2
43-B-16411	3 1/2	43-B-16581	2 1/4
43-B-16412	3 3/4	43-B-16582	2 1/2
43-B-16413	4	43-B-16583	2 3/4
43-B-16415	4 1/2	43-B-16584	3
43-B-16417	5	43-B-16585	3 1/4
3/8 INCH DIAMETER, 16 THREADS PER INCH		43-B-16586	3 1/2
43-B-16437	1/2	43-B-16587	3 3/4
43-B-16438	5/8	43-B-16588	4
43-B-16440	3/4	43-B-16590	4 1/2
43-B-16441	7/8	43-B-16591	4 3/4
43-B-16442	1	43-B-16592	5
43-B-16443	1 1/4	43-B-16593	5 1/4
43-B-16444	1 1/2	43-B-16594	5 1/2
43-B-16445	1 3/4	43-B-16595	5 3/4
43-B-16446	2	43-B-16596	6
		43-B-16598	6 1/2

MACHINE BOLTS

Hexagon Head and Nut

STEEL - UNCOATED (Black)

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
1/2 INCH DIAMETER, 13 THREADS PER INCH		5/8 INCH DIAMETER, 11 THREADS PER INCH	
43-B-16600	7	43-B-16731	7 1/2
43-B-16602	7 1/2	43-B-16732	7 3/4
43-B-16604	8	43-B-16733	8
43-B-16606	9	43-B-16737	9
43-B-16608	10	43-B-16739	10
43-B-16610	11	43-B-16743	12
43-B-16618	15	43-B-16747	14
43-B-16620	16	43-B-16751	16
43-B-16626	19	43-B-16755	18
		43-B-16759	20
9/16 INCH DIAMETER, 12 THREADS PER INCH		3/4 INCH DIAMETER, 10 THREADS PER INCH	
43-B-16638	1 3/8	43-B-16770	1
43-B-16640	1 1/2	43-B-16772	1 1/4
43-B-16641	1 3/4	43-B-16774	1 1/2
43-B-16642	2	43-B-16776	1 3/4
43-B-16666	8	43-B-16778	2
43-B-16667	8 1/4	43-B-16780	2 1/4
43-B-16674	12	43-B-16782	2 1/2
		43-B-16783	2 5/8
		43-B-16784	2 3/4
		43-B-16786	3
5/8 INCH DIAMETER, 11 THREADS PER INCH		43-B-16787	3 1/4
43-B-16700	1	43-B-16788	3 1/2
43-B-16702	1 1/4	43-B-16789	3 3/4
43-B-16704	1 1/2	43-B-16790	4
43-B-16706	1 3/4	43-B-16791	4 1/4
43-B-16708	2	43-B-16792	4 1/2
43-B-16709	2 1/8	43-B-16793	4 3/4
43-B-16710	2 1/4	43-B-16794	5
43-B-16711	2 1/2	43-B-16796	5 1/2
43-B-16712	2 3/4	43-B-16798	6
43-B-16713	3	43-B-16800	6 1/2
43-B-16715	3 1/2	43-B-16802	7
43-B-16717	4	43-B-16804	7 1/2
43-B-16719	4 1/2	43-B-16806	8
43-B-16721	5	43-B-16808	9
43-B-16723	5 1/2	43-B-16810	10
43-B-16725	6	43-B-16812	11
43-B-16727	6 1/2	43-B-16814	12
43-B-16729	7		

MACHINE BOLTS
Hexagon Head and Nut

STEEL - UNCOATED (Black)
SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
3/4 INCH DIAMETER, 10 THREADS PER INCH		7/8 INCH DIAMETER, 9 THREADS PER INCH	
43-B-16816	13	43-B-16912	14
43-B-16822	16	43-B-16914	15
43-B-16826	18	43-B-16924	20
43-B-16850	30	1 INCH DIAMETER, 8 THREADS PER INCH	
43-B-16855	35	7/8 INCH DIAMETER, 9 THREADS PER INCH	
7/8 INCH DIAMETER, 9 THREADS PER INCH		43-B-16958	1
43-B-16864	1	43-B-16960	1 1/2
43-B-16868	1 1/2	43-B-16962	2
43-B-16870	1 3/4	43-B-16964	2 1/2
43-B-16872	2	43-B-16966	3
43-B-16874	2 1/4	43-B-16968	3 1/2
43-B-16876	2 1/2	43-B-16969	3 3/4
43-B-16880	3	43-B-16970	4
43-B-16881	3 1/4	43-B-16972	4 1/2
43-B-16882	3 1/2	43-B-16974	5
43-B-16883	3 3/4	43-B-16976	5 1/2
43-B-16884	4	43-B-16978	6
43-B-16886	4 1/2	43-B-16980	6 1/2
43-B-16888	5	43-B-16982	7
43-B-16890	5 1/2	43-B-16986	8
43-B-16892	6	1 1/8 INCH DIAMETER, 7 THREADS PER INCH	
43-B-16896	7	43-B-17058	3 1/2
43-B-16900	8	43-B-17060	4
43-B-16902	9	43-B-17062	4 1/2
43-B-16904	10	43-B-17066	5 1/2
43-B-16906	11	43-B-17068	6
43-B-16908	12		
43-B-16910	13		

MACHINE BOLTS

Hexagon Head and Nut

STEEL - GALVANIZED

SEMI-FINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
1/4 INCH DIAMETER, 20 THREADS PER INCH		3/8 INCH DIAMETER, 16 THREADS PER INCH	
43-B-17250	1/2	43-B-17320	6
43-B-17252	3/4	7/16 INCH DIAMETER, 14 THREADS PER INCH	
43-B-17254	1	43-B-17322	1 1/2
43-B-17256	1 1/4	43-B-17324	2
43-B-17258	1 1/2	1/2 INCH DIAMETER, 13 THREADS PER INCH	
43-B-17260	1 3/4	43-B-17328-30	3/4
43-B-17262	2	43-B-17328-40	1
43-B-17264	2 1/2	43-B-17328-50	1 1/4
43-B-17266	3	43-B-17328-60	1 1/2
43-B-17268	3 1/2	43-B-17328-70	1 3/4
43-B-17270	4	43-B-17328-80	2
5/16 INCH DIAMETER, 18 THREADS PER INCH		43-B-17328-90	2 1/4
43-B-17272	3/4	43-B-17328-100	2 1/2
43-B-17274	1	43-B-17328-110	2 3/4
43-B-17276	1 1/4	43-B-17328-120	3
43-B-17278	1 1/2	43-B-17328-130	3 1/4
43-B-17280	2	43-B-17328-140	3 1/2
43-B-17282	2 1/2	43-B-17328-150	3 3/4
43-B-17284	3	43-B-17328-160	4
43-B-17286	3 1/2	43-B-17328-180	4 1/2
43-B-17288	3 3/4	43-B-17328-190	4 3/4
43-B-17290	4	43-B-17328-200	5
43-B-17292	4 1/2	43-B-17328-210	5 1/4
43-B-17294	5	43-B-17328-220	5 1/2
3/8 INCH DIAMETER, 16 THREADS PER INCH		43-B-17328-230	5 3/4
43-B-17296	3/4	43-B-17328-240	6
43-B-17298	1	43-B-17328-260	6 1/2
43-B-17300	1 1/4	43-B-17328-280	7
43-B-17302	1 1/2	43-B-17328-300	7 1/2
43-B-17304	1 3/4	43-B-17328-320	8
43-B-17306	2	43-B-17328-360	9
43-B-17308	2 1/2	43-B-17328-400	10
43-B-17310	3	43-B-17328-440	11
43-B-17312	3 1/2	43-B-17328-600	15
43-B-17314	4	43-B-17328-640	16
43-B-17316	4 1/2	43-B-17328-760	19
43-B-17318	5		

MACHINE BOLTS

Hexagon Head and Nut

STEEL - GALVANIZED

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
9/16 INCH DIAMETER, 12 THREADS PER INCH		3/4 INCH DIAMETER, 10 THREADS PER INCH	
43-B-17330-55	1 3/8	43-B-17348-960	2
43-B-17330-70	1 3/4	43-B-17348-970	2 1/4
43-B-17330-320	8	43-B-17348-980	2 1/2
43-B-17330-330	8 1/4	43-B-17348-985	2 5/8
43-B-17330-480	12	43-B-17348-990	2 3/4
5/8 INCH DIAMETER, 11 THREADS PER INCH		43-B-17349	3
43-B-17339-920	1	43-B-17350	3 1/4
43-B-17339-930	1 1/4	43-B-17350-20	3 1/2
43-B-17339-940	1 1/2	43-B-17350-30	3 3/4
43-B-17339-950	1 3/4	43-B-17350-40	4
43-B-17339-960	2	43-B-17350-50	4 1/4
43-B-17339-965	2 1/8	43-B-17350-60	4 1/2
43-B-17339-970	2 1/4	43-B-17350-70	4 3/4
43-B-17339-980	2 1/2	43-B-17350-80	5
43-B-17339-990	2 3/4	43-B-17350-100	5 1/2
43-B-17340	3	43-B-17350-120	6
43-B-17340-20	3 1/2	43-B-17350-140	6 1/2
43-B-17340-40	4	43-B-17350-160	7
43-B-17340-60	4 1/2	43-B-17350-180	7 1/2
43-B-17340-80	5	43-B-17350-200	8
43-B-17340-100	5 1/2	43-B-17350-240	9
43-B-17340-120	6	43-B-17350-280	10
43-B-17340-140	6 1/2	43-B-17350-320	11
43-B-17340-160	7	43-B-17350-360	12
43-B-17340-180	7 1/2	43-B-17350-400	13
43-B-17340-200	8	43-B-17350-520	16
43-B-17340-240	9	43-B-17350-600	18
43-B-17340-280	10	43-B-17350-880	30
43-B-17340-360	12	43-B-17350-980	35
43-B-17340-440	14	7/8 INCH DIAMETER, 9 THREADS PER INCH	
43-B-17340-520	16	43-B-17352-40	1
43-B-17340-600	18	43-B-17352-60	1 1/2
43-B-17340-680	20	43-B-17352-70	1 3/4
3/4 INCH DIAMETER, 10 THREADS PER INCH		43-B-17352-80	2
43-B-17348-920	1	43-B-17352-90	2 1/4
43-B-17348-930	1 1/4	43-B-17352-100	2 1/2
43-B-17348-940	1 1/2	43-B-17352-120	3
43-B-17348-950	1 3/4	43-B-17352-130	3 1/4
		43-B-17352-140	3 1/2
		43-B-17352-150	3 3/4
		43-B-17352-160	4

MACHINE BOLTS

Hexagon Head and Nut

STEEL - GALVANIZED

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
7/8 INCH DIAMETER, 9 THREADS PER INCH		1 INCH DIAMETER, 8 THREADS PER INCH	
43-B-17352-180	4 1/2	43-B-17354-100	2 1/2
43-B-17352-200	5	43-B-17354-120	3
43-B-17352-220	5 1/2	43-B-17354-140	3 1/2
43-B-17352-240	6	43-B-17354-150	3 3/4
43-B-17352-280	7	43-B-17354-160	4
43-B-17352-320	8	43-B-17354-180	4 1/2
43-B-17352-360	9	43-B-17354-200	5
43-B-17352-400	10	43-B-17354-220	5 1/2
43-B-17352-440	11	43-B-17354-240	6
43-B-17352-480	12	43-B-17354-260	6 1/2
43-B-17352-520	13	43-B-17354-280	7
43-B-17352-560	14	43-B-17354-320	8
43-B-17352-600	15		
43-B-17352-800	20		
1 INCH DIAMETER, 8 THREADS PER INCH		1 1/8 INCH DIAMETER, 7 THREADS PER INCH	
		43-B-17356-140	3 1/2
		43-B-17356-180	4 1/2
		43-B-17356-220	5 1/2
43-B-17354-60	1 1/2		
43-B-17354-80	2		

SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 3 FIT

Stock No.	Length (L) In.	Stock No.	Length (L) In.
1/2 INCH DIAMETER, 13 THREADS PER INCH		1/2 INCH DIAMETER, 13 THREADS PER INCH	
43-B-18300	3/4	43-B-18322	3 1/2
43-B-18302	1	43-B-18324	3 3/4
43-B-18304	1 1/4	43-B-18326	4
43-B-18306	1 1/2	43-B-18328	4 1/2
43-B-18308	1 3/4	43-B-18330	4 3/4
43-B-18310	2	43-B-18332	5
43-B-18312	2 1/4	43-B-18334	5 1/4
43-B-18314	2 1/2	43-B-18336	5 1/2
43-B-18316	2 3/4	43-B-18338	5 3/4
43-B-18318	3	43-B-18340	6
43-B-18320	3 1/4		

MACHINE BOLTS
Hexagon Head - Without Nut

CORROSION - RESISTING STEEL
SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)	Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)
1/4 INCH DIAMETER, 20 THREADS PER INCH			3/8 INCH DIAMETER, 16 THREADS PER INCH		
43-B-21912-100	1/2	1/2	43-B-73995-440	1 3/4	7/8
43-B-21912-102	5/8	5/8	43-B-21912-174	2	1
43-B-21912-103	3/4	1/2	43-B-21912-176	2 1/4	1
43-B-21912-105	7/8	1/2	43-B-21912-178	2 1/2	1
43-B-21912-108	1	3/4	43-B-21912-180	2 3/4	1
43-B-21912-110	1 1/4	3/4	43-B-21912-182	3	1
43-B-21912-112	1 1/2	3/4	43-B-21912-183	3 1/4	1
43-B-21912-113	1 3/4	3/4	43-B-21912-185	3 1/2	1
43-B-21912-115	2	3/4	43-B-21912-187	3 3/4	1
43-B-21912-117	2 1/4	3/4	43-B-21912-189	4	1
43-B-21912-119	2 1/2	3/4	43-B-21912-191	4 1/2	1
43-B-21912-121	2 3/4	3/4	43-B-21912-193	5	1 3/16
43-B-21912-123	3	7/8	7/8 INCH DIAMETER, 14 THREADS PER INCH		
43-B-73995-200	3 1/4	7/8	43-B-21912-199	1	3/4
43-B-73995-230	4	7/8	43-B-21912-202	1 1/4	1
5/16 INCH DIAMETER, 18 THREADS PER INCH			43-B-21912-204	1 1/2	1
43-B-73995-325	5/8	5/8	43-B-21912-206	1 3/4	1
43-B-21912-125	3/4	1/2	43-B-21912-208	2	1 1/4
43-B-21912-129	7/8	1/2	43-B-21912-210	2 1/4	1 1/4
43-B-21912-134	1	3/4	43-B-21912-212	2 1/2	1 1/4
43-B-21912-136	1 1/4	3/4	43-B-21912-214	2 3/4	1 1/4
43-B-21912-138	1 1/2	7/8	43-B-21912-216	3	1 1/4
43-B-21912-140	1 3/4	7/8	43-B-21912-218	3 1/4	1 1/4
43-B-21912-142	2	1	43-B-21912-220	3 1/2	1 1/4
43-B-21912-144	2 1/4	1	43-B-21912-224	4	1 1/4
43-B-21912-146	2 1/2	1	43-B-21912-226	4 1/2	1 1/4
43-B-21912-148	3	1	43-B-21912-228	5	1 1/4
43-B-21912-150	3 1/4	1	1/2 INCH DIAMETER, 13 THREADS PER INCH		
43-B-21912-152	3 1/2	1	43-B-21912-230	3/4	3/4
43-B-21912-156	4	1	43-B-21912-232	7/8	7/8
3/8 INCH DIAMETER, 16 THREADS PER INCH			43-B-21912-235	1	3/4
43-B-21912-157	5/8	5/8	43-B-21912-238	1 1/4	1
43-B-21912-158	3/4	1/2	43-B-21912-240	1 1/2	1
43-B-21912-163	7/8	1/2	43-B-21912-242	1 3/4	1
43-B-21912-165	1	3/4	43-B-21912-244	2	1 1/4
43-B-21912-167	1 1/4	3/4	43-B-21912-247	2 1/4	1 1/4
43-B-21912-170	1 1/2	7/8	43-B-21912-248	2 1/2	1 1/4

MACHINE BOLTS
Hexagon Head -Without Nut
CORROSION - RESISTING STEEL
SEMIFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)	Stock No.	Length (L) (Inches)	Minimum Length of Thread (Inches)
1/2 INCH DIAMETER, 13 THREADS PER INCH			5/8 INCH DIAMETER, 11 THREADS PER INCH		
43-B-21912-250	2 3/4	1 1/4	43-B-21912-293	5	1 1/2
43-B-21912-252	3	1 1/4	43-B-21912-295	5 1/2	1 1/2
43-B-21912-254	3 1/2	1 1/4	43-B-21912-297	6	1 1/2
43-B-21912-256	4	1 1/4	3/4 INCH DIAMETER, 10 THREADS PER INCH		
43-B-21912-258	4 1/2	1 1/4	43-B-21912-309	1 1/2	1 1/8
43-B-21912-260	5	1 1/4	43-B-21912-316	1 3/4	1 3/8
43-B-21912-262	5 1/2	1 1/4	43-B-21912-320	2	1 3/8
43-B-21912-266	6	1 1/2	43-B-21912-324	2 1/8	1 3/8
5/8 INCH DIAMETER, 11 THREADS PER INCH			43-B-74003-200	2 1/4	1 3/8
43-B-21912-273	1 1/4	1	43-B-21912-327	2 1/2	1 1/2
43-B-21912-276	1 1/2	1 1/8	43-B-74003-240	2 5/8	1 1/2
43-B-21912-278	1 3/4	1 3/16	43-B-21912-333	3	1 3/4
43-B-21912-281	2	1 1/4	43-B-21912-338	3 1/4	1 3/4
43-B-21912-283	2 1/2	1 1/2	43-B-21912-339	3 1/2	1 3/4
43-B-21912-285	3	1 1/2	43-B-21912-341	4	1 3/4
43-B-21912-287	3 1/2	1 1/2	43-B-21912-343	4 1/2	1 3/4
43-B-21912-289	4	1 1/2	43-B-21912-345	5	1 3/4
43-B-21912-291	4 1/2	1 1/2	43-B-21912-347	5 1/2	1 3/4
			43-B-21912-349	6	1 3/4

CARRIAGE BOLTS
Square Neck and Nut

STEEL

UNFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)	Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)			
3/16 INCH DIAMETER, 24 THREADS PER INCH			5/16 INCH DIAMETER, 18 THREADS PER INCH					
43-B-6000	43-B-8000	1/2	43-B-6092	43-B-8060	3/4			
43-B-6001	43-B-8001	5/8	43-B-6094	43-B-8062	1			
43-B-6002	43-B-8002	3/4	43-B-6095	.....	1 1/4		
43-B-6004	43-B-8004	1	43-B-6096	43-B-8065	1 1/2			
43-B-6005	43-B-8006	1 1/4	43-B-6097	.....	1 3/4		
43-B-6006	43-B-8007	1 1/2	43-B-6098	43-B-8067	2			
43-B-6007	43-B-8008	1 3/4	43-B-6098-50	.....	2 1/4		
43-B-6008	43-B-8009	2	43-B-6100	43-B-8069	2 1/2			
43-B-6009	43-B-8010	2 1/4	43-B-6101	.....	2 3/4		
43-B-6010	43-B-8011	2 1/2	43-B-6102	43-B-8071	3			
43-B-6012	43-B-8013	3	43-B-6103	.....	3 1/4		
43-B-6014	43-B-8015	3 1/2	43-B-6104	.....	3 1/2		
43-B-6015	43-B-8017	4	43-B-6105	.....	3 3/4		
1/4 INCH DIAMETER, 20 THREADS PER INCH			43-B-6106	43-B-8075	4			
			43-B-6107	.....	4 1/4		
			43-B-6108	43-B-8077	4 1/2			
			43-B-6110	43-B-8079	5			
			43-B-6112	43-B-8081	5 1/2			
			43-B-6114	43-B-8083	6			
			43-B-6116	43-B-8085	6 1/2			
			43-B-6118	43-B-8087	7			
			43-B-6122	43-B-8089	7 1/2			
			43-B-6123	43-B-8091	8			
43-B-6124	43-B-8092	9						
43-B-6125	43-B-8093	10						
3/8 INCH DIAMETER, 16 THREADS PER INCH			43-B-6130	43-B-8100	3/4			
			43-B-6132	43-B-8102	1			
			43-B-6133	.....	1 1/4		
			43-B-6134	43-B-8105	1 1/2			
			43-B-6135	.....	1 3/4		
			43-B-6136	43-B-8107	2			
			43-B-6138	.....	2 1/4		
			43-B-6139	43-B-8109	2 1/2			
			43-B-6140	.....	2 3/4		
			43-B-6141	43-B-8111	3			
			43-B-6142	.....	3 1/4		
			43-B-6040	43-B-8030	1/2			
			43-B-6041	43-B-8031	5/8			
			43-B-6042	43-B-8032	3/4			
43-B-6043	43-B-8034	1						
43-B-6045	.....	1 1/4					
43-B-6046	43-B-8037	1 1/2						
43-B-6047	.....	1 3/4					
43-B-6048	43-B-8039	2						
43-B-6049	.....	2 1/4					
43-B-6050	43-B-8041	2 1/2						
43-B-6051	.....	2 3/4					
43-B-6052	43-B-8043	3						
43-B-6053	.....	3 1/4					
43-B-6054	.....	3 1/2					
43-B-6056	43-B-8047	4						
43-B-6058	43-B-8049	4 1/2						
43-B-6060	43-B-8051	5						
43-B-6062	43-B-8053	5 1/2						
43-B-6064	43-B-8055	6						
43-B-6066	43-B-8056	6 1/2						
43-B-6068	43-B-8057	7						
43-B-6069	43-B-8057-50	7 1/2						
43-B-6070	43-B-8058	8						

CARRIAGE BOLTS
Square Neck and Nut

STEEL

UNFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)	Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)
3/8 INCH DIAMETER, 16 THREADS PER INCH			1/2 INCH DIAMETER, 13 THREADS PER INCH		
43-B-6143	43-B-8113	3 1/2	43-B-6219	43-B-8200	1
43-B-6144	.....	3 3/4	43-B-6230	43-B-8202	1 1/4
43-B-6145	43-B-8115	4	43-B-6232	43-B-8203	1 1/2
43-B-6146	.....	4 1/4	43-B-6233	43-B-8204	1 3/4
43-B-6147	.....	4 1/2	43-B-6234	43-B-8205	2
43-B-6149	43-B-8119	5	43-B-6235	43-B-8206	2 1/4
43-B-6151	.....	5 1/2	43-B-6236	43-B-8207	2 1/2
43-B-6153	43-B-8123	6	43-B-6237	43-B-8208	2 3/4
43-B-6155	43-B-8125	6 1/2	43-B-6238	43-B-8209	3
43-B-6157	43-B-8127	7	43-B-6239	43-B-8210	3 1/4
43-B-6159	43-B-8129	7 1/2	43-B-6240	43-B-8211	3 1/2
43-B-6161	43-B-8131	8	43-B-6241	43-B-8212	3 3/4
43-B-6163	43-B-8132	8 1/2	43-B-6242	43-B-8213	4
43-B-6164	43-B-8133	9	43-B-6244	43-B-8215	4 1/2
43-B-6166	43-B-8134	9 1/2	43-B-6246	43-B-8217	5
43-B-6169	43-B-8135	10	43-B-6248	43-B-8219	5 1/2
43-B-6171	43-B-8135-20	11	43-B-6250	43-B-8221	6
43-B-6173	43-B-8135-40	12	43-B-6252	43-B-8223	6 1/2
7/16 INCH DIAMETER, 14 THREADS PER INCH			43-B-6254	43-B-8225	7
43-B-6180	43-B-8140	1	43-B-6256	43-B-8227	7 1/2
43-B-6182	43-B-8142	1 1/4	43-B-6258	43-B-8229	8
43-B-6183	43-B-8143	1 1/2	43-B-6260	43-B-8231	8 1/2
43-B-6184	43-B-8144	1 3/4	43-B-6262	43-B-8233	9
43-B-6185	43-B-8145	2	43-B-6264	43-B-8235	9 1/2
43-B-6186	43-B-8146	2 1/4	43-B-6266	43-B-8237	10
43-B-6187	43-B-8147	2 1/2	43-B-6268	43-B-8238	10 1/2
43-B-6188	43-B-8148	2 3/4	43-B-6270	43-B-8239	11
43-B-6189	43-B-8149	3	43-B-6272	43-B-8240	11 1/2
43-B-6191	43-B-8151	3 1/2	43-B-6274	43-B-8241	12
43-B-6193	43-B-8153	4	43-B-6276	43-B-8242	13
43-B-6195	43-B-8155	4 1/2	43-B-6278	43-B-8242-20	14
43-B-6197	43-B-8157	5	43-B-6280	43-B-8243	15
43-B-6199	43-B-8159	5 1/2	43-B-6288	43-B-8244	16
43-B-6201	43-B-8161	6	43-B-6289	43-B-8245	18
43-B-6203	43-B-8163	6 1/2	5/8 INCH DIAMETER, 11 THREADS PER INCH		
43-B-6205	43-B-8165	7	43-B-6352	43-B-8302	1 1/2
43-B-6207	43-B-8167	7 1/2	43-B-6354	43-B-8304	2
43-B-6209	43-B-8169	8	43-B-6356	43-B-8306	2 1/2
43-B-6213	43-B-8173	9	43-B-6357	43-B-8307	2 3/4
43-B-6217	43-B-8177	10	43-B-6358	43-B-8308	3

CARRIAGE BOLTS
Square Neck and Nut

STEEL

UNFINISHED - NATIONAL COARSE THREAD SERIES - CLASS 2 FIT

Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)	Uncoated (Black) Stock No. (a)	Electro- galvanized Stock No. (b)	Length (L) (Inches)
5/8 INCH DIAMETER, 11 THREADS PER INCH			3/4 INCH DIAMETER, 10 THREADS PER INCH		
43-B-6360	43-B-8310	3 1/2	43-B-6402	43-B-8352	2
43-B-6362	43-B-8312	4	43-B-6404	43-B-8354	2 1/2
43-B-6364	43-B-8314	4 1/2	43-B-6406	43-B-8356	3
43-B-6366	43-B-8316	5	43-B-6408	43-B-8358	3 1/2
43-B-6368	43-B-8318	5 1/2	43-B-6410	43-B-8360	4
43-B-6370	43-B-8320	6	43-B-6412	43-B-8362	4 1/2
43-B-6372	43-B-8322	6 1/2	43-B-6414	43-B-8364	5
43-B-6374	43-B-8324	7	43-B-6416	43-B-8366	5 1/2
43-B-6376	43-B-8326	7 1/2	43-B-6418	43-B-8368	6
43-B-6378	43-B-8328	8	43-B-6420	43-B-8370	6 1/2
43-B-6382	43-B-8332	9	43-B-6422	43-B-8372	7
43-B-6386	43-B-8336	10	43-B-6424	43-B-8374	7 1/2
43-B-6388	43-B-8337	11	43-B-6426	43-B-8376	8
43-B-6390	43-B-8338	12	43-B-6428	43-B-8378	8 1/2
			43-B-6430	43-B-8380	9
			43-B-6434	43-B-8384	10

STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS

NATIONAL COARSE THREAD - CLASS 2 FIT

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
No. 2 - 56	1/8	43-S-7812	43-S-8816	43-S-8485-5	43-S-7735	43-S-8770
	3/16	43-S-7813	43-S-8818	43-S-8485-8	43-S-7735-4	43-S-8770-4
	1/4	43-S-7814	43-S-8820	43-S-8485-11	43-S-7735-8	43-S-8770-8
	5/16	43-S-7815	43-S-8821	43-S-8485-14	43-S-7735-12	43-S-8770-12
	3/8	43-S-7816	43-S-8822	43-S-8485-17	43-S-7735-16	43-S-8770-16
	7/16	43-S-7817	43-S-8823	43-S-8485-20	43-S-7735-20	43-S-8770-20
	1/2	43-S-7818	43-S-8824	43-S-8485-23	43-S-7735-24	43-S-8770-24
	9/16					43-S-8770-28
	5/8	43-S-7820	43-S-8826	43-S-8485-26	43-S-7735-32	43-S-8770-32
	3/4	43-S-7822	43-S-8828	43-S-8485-29	43-S-7735-36	43-S-8770-36
	7/8	43-S-7824	43-S-8830	43-S-8485-32	43-S-7735-40	43-S-8770-38
	1				43-S-7735-44	43-S-8770-40
	No. 3 - 48	1/8	43-S-7848	43-S-8838	43-S-8486-5	43-S-7735-60	43-S-8770-76
3/16		43-S-7849	43-S-8840	43-S-8486-8	43-S-7735-64	43-S-8770-80
1/4		43-S-7850	43-S-8842	43-S-8486-11	43-S-7735-68	43-S-8770-84
5/16		43-S-7851	43-S-8844	43-S-8486-14	43-S-7735-72	43-S-8770-88
3/8		43-S-7852	43-S-8846	43-S-8486-17	43-S-7735-76	43-S-8770-92
7/16		43-S-7853	43-S-8848	43-S-8486-20	43-S-7735-80	43-S-8770-96
1/2		43-S-7854	43-S-8850	43-S-8486-23	43-S-7735-84	43-S-8770-100
9/16					43-S-7735-88	43-S-8770-104
5/8		43-S-7855	43-S-8852	43-S-8486-26	43-S-7735-92	43-S-8770-108
3/4		43-S-7856	43-S-8854	43-S-8486-29	43-S-7735-96	43-S-8770-112
7/8		43-S-7858	43-S-8856	43-S-8486-32	43-S-7735-100	43-S-8770-116
1					43-S-7735-104	43-S-8770-120
No. 4 - 40		1/8	43-S-7876	43-S-8874	43-S-8487-5	43-S-7735-116	43-S-8770-152
	3/16	43-S-7878	43-S-8876	43-S-8487-8	43-S-7735-120	43-S-8770-156
	1/4	43-S-7884	43-S-8878	43-S-8487-11	43-S-7735-124	43-S-8770-160
	5/16	43-S-7885	43-S-8879	43-S-8487-14	43-S-7735-128	43-S-8770-164
	3/8	43-S-7886	43-S-8880	43-S-8487-17	43-S-7735-132	43-S-8770-168

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed round Head	
No. 4 - 40	7/16	43-S-7887	43-S-8881	43-S-8487-20	43-S-7735-136	43-S-8770-172	
	1/2	43-S-7888	43-S-8882	43-S-8487-23	43-S-7735-140	43-S-8770-176	
	9/16				43-S-7735-144	43-S-8770-180	
	5/8	43-S-7890	43-S-8884	43-S-8487-26	43-S-7735-148	43-S-8770-184	
	3/4	43-S-7894	43-S-8886	43-S-8487-29	43-S-7735-152	43-S-8770-188	
	7/8	43-S-7896	43-S-8888	43-S-8487-32	43-S-7735-156	43-S-8770-192	
	1	43-S-7898	43-S-8890	43-S-8487-35	43-S-7735-160	43-S-8770-196	
	1 1/8	43-S-7900	43-S-8892	43-S-8487-38	43-S-7735-164	43-S-8770-200	
	1 1/4	43-S-7902	43-S-8894	43-S-8487-41	43-S-7735-168	43-S-8770-204	
	1 1/2	43-S-7906	43-S-8896	43-S-8487-44	43-S-7735-176	43-S-8770-212	
	1 3/4		43-S-8898				
	No. 5 - 40	1/8	43-S-7920			43-S-7735-190	43-S-8770-226
		3/16	43-S-7921	43-S-8905		43-S-7735-194	43-S-8770-230
1/4		43-S-7922			43-S-7735-198	43-S-8770-234	
5/16		43-S-7923			43-S-7735-202	43-S-8770-238	
3/8		43-S-7924			43-S-7735-206	43-S-8770-242	
7/16		43-S-7925			43-S-7735-210	43-S-8770-246	
1/2		43-S-7926	43-S-8910		43-S-7735-214	43-S-8770-250	
9/16					43-S-7735-218	43-S-8770-254	
5/8		43-S-7928			43-S-7735-222	43-S-8770-258	
3/4		43-S-7930	43-S-8914		43-S-7735-226	43-S-8770-262	
7/8		43-S-7932			43-S-7735-230	43-S-8770-266	
1		43-S-7934	43-S-8918		43-S-7735-234	43-S-8770-270	
1 1/8		43-S-7936			43-S-7735-238	43-S-8770-274	
1 1/4		43-S-7938			43-S-7735-240	43-S-8770-276	
1 1/2		43-S-7942			43-S-7735-244	43-S-8770-280	
1 3/4		43-S-7944			43-S-7735-248	43-S-8770-284	
2	43-S-7946			43-S-7735-252	43-S-8770-288		
No. 6 - 32	1/8	43-S-7962	43-S-8948	43-S-8490	43-S-7735-262	43-S-8770-300	
	3/16	43-S-7964	43-S-8950	43-S-8491	43-S-7735-266	43-S-8770-304	
	1/4	43-S-7965	43-S-8951	43-S-8492	43-S-7735-270	43-S-8770-308	

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
No. 6 - 32	5/16	43-S-7966	43-S-8952	43-S-8493	43-S-7735-274	43-S-8770-312
	3/8	43-S-7967	43-S-8953	43-S-8494	43-S-7735-278	43-S-8770-316
	7/16	43-S-7968	43-S-8954	43-S-8495	43-S-7735-282	43-S-8770-320
	1/2	43-S-7969	43-S-8955	43-S-8496	43-S-7735-286	43-S-8770-324
	9/16	43-S-7970			43-S-7735-290	43-S-8770-328
	5/8	43-S-7971	43-S-8957	43-S-8497	43-S-7735-294	43-S-8770-332
	3/4	43-S-7973	43-S-8959	43-S-8498	43-S-7735-298	43-S-8770-336
	7/8	43-S-7975	43-S-8961	43-S-8499	43-S-7735-302	43-S-8770-340
	1	43-S-7977	43-S-8963	43-S-8500	43-S-7735-306	43-S-8770-344
	1 1/8	43-S-7979	43-S-8965	43-S-8503	43-S-7735-310	43-S-8770-348
	1 1/4	43-S-7981	43-S-8967	43-S-8506	43-S-7735-314	43-S-8770-352
	1 1/2	43-S-7985	43-S-8971	43-S-8509	43-S-7735-318	43-S-8770-356
	1 3/4	43-S-7987	43-S-8973	43-S-8512	43-S-7735-322	43-S-8770-360
	2	43-S-7989	43-S-8975	43-S-8516	43-S-7735-326	43-S-8770-364
No. 8 - 32	3/16	43-S-8004	43-S-8994	43-S-8530	43-S-7735-350	43-S-8770-376
	1/4	43-S-8006	43-S-8996	43-S-8532	43-S-7735-354	43-S-8770-380
	5/16	43-S-8007	43-S-8997	43-S-8534	43-S-7735-358	43-S-8770-384
	3/8	43-S-8008	43-S-8998	43-S-8536	43-S-7735-362	43-S-8770-388
	7/16	43-S-8009	43-S-8999	43-S-8538	43-S-7735-366	43-S-8770-392
	1/2	43-S-8010	43-S-9000	43-S-8539	43-S-7735-370	43-S-8770-396
	9/16	43-S-8011			43-S-7735-374	43-S-8770-400
	5/8	43-S-8012	43-S-9002	43-S-8540	43-S-7735-378	43-S-8770-404
	11/16		43-S-9003			
	3/4	43-S-8014	43-S-9004	43-S-8542	43-S-7735-382	43-S-8770-408
	13/16		43-S-9005			
	7/8	43-S-8016	43-S-9006	43-S-8546	43-S-7735-386	43-S-8770-412
	15/16		43-S-9007			
	1	43-S-8018	43-S-9008	43-S-8548	43-S-7735-390	43-S-8770-416
	1 1/8	43-S-8020	43-S-9010	43-S-8550	43-S-7735-394	43-S-8770-420

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD—CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
No. 8 - 32	1 1/4	43-S-8022	43-S-9012	43-S-8552	43-S-7735-398	43-S-8770-424
	1 1/2	43-S-8026	43-S-9016	43-S-8554	43-S-7735-402	43-S-8770-428
	1 3/4	43-S-8028	43-S-9018	43-S-8556	43-S-7735-406	43-S-8770-432
	2	43-S-8030	43-S-9024	43-S-8558	43-S-7735-410	43-S-8770-436
	2 1/4	43-S-8032	43-S-9026	43-S-8560	43-S-7735-414	43-S-8770-438
	2 1/2	43-S-8034	43-S-9028	43-S-8562	43-S-7735-418	43-S-8770-440
	2 3/4	43-S-8036	43-S-9030	43-S-8564	43-S-7735-422	43-S-8770-442
	3	43-S-8038	43-S-9032	43-S-8566	43-S-7735-426	43-S-8770-444
No. 10 - 24	3/16	43-S-8044	43-S-9048	43-S-8580	43-S-7735-434	43-S-8770-450
	1/4	43-S-8046	43-S-9050	43-S-8582	43-S-7735-438	43-S-8770-454
	5/16	43-S-8048	43-S-9051	43-S-8584	43-S-7735-442	43-S-8770-458
	3/8	43-S-8050	43-S-9052	43-S-8586	43-S-7735-446	43-S-8770-462
	7/16	43-S-8051	43-S-9053	43-S-8588	43-S-7735-450	43-S-8770-466
	1/2	43-S-8052	43-S-9054	43-S-8590	43-S-7735-454	43-S-8770-470
	9/16	43-S-8053	43-S-9056		43-S-7735-458	43-S-8770-474
	5/8	43-S-8054		43-S-8592	43-S-7735-462	43-S-8770-478
	11/16	43-S-8055				
	3/4	43-S-8056	43-S-9058	43-S-8594	43-S-7735-466	43-S-8770-482
	7/8	43-S-8058	43-S-9060	43-S-8596	43-S-7735-470	43-S-8770-486
	1	43-S-8060	43-S-9062	43-S-8598	43-S-7735-474	43-S-8770-490
	1 1/8	43-S-8062	43-S-9064	43-S-8600	43-S-7735-478	43-S-8770-494
	1 1/4	43-S-8064	43-S-9066	43-S-8602	43-S-7735-482	43-S-8770-498
	1 1/2	43-S-8068	43-S-9070	43-S-8604	43-S-7735-486	43-S-8770-502
	1 3/4	43-S-8070	43-S-9072	43-S-8606	43-S-7735-490	43-S-8770-506
	2	43-S-8072	43-S-9074	43-S-8608	43-S-7735-494	43-S-8770-510
	2 1/4	43-S-8074	43-S-9076	43-S-8610	43-S-7735-498	43-S-8770-512
	2 1/2	43-S-8076	43-S-9078	43-S-8612	43-S-7735-502	43-S-8770-514
	2 3/4	43-S-8078	43-S-9080	43-S-8614	43-S-7735-506	43-S-8770-516
	3	43-S-8080	43-S-9082	43-S-8616	43-S-7735-510	43-S-8770-518

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
No. -24 12	1/4	43-S-8086	43-S-9100	43-S-8630	43-S-7735-516	43-S-8770-526
	5/16	43-S-8087	43-S-9101	43-S-8632	43-S-7735-520	43-S-8770-530
	3/8	43-S-8088	43-S-9102	43-S-8634	43-S-7735-524	43-S-8770-534
	7/16	43-S-8089	43-S-9103	43-S-8636	43-S-7735-528	43-S-8770-538
	1/2	43-S-8090	43-S-9104	43-S-8638	43-S-7735-532	43-S-8770-542
	9/16				43-S-7735-536	43-S-8770-546
	5/8	43-S-8092	43-S-9106	43-S-8640	43-S-7735-540	43-S-8770-550
	3/4	43-S-8094	43-S-9108	43-S-8642	43-S-7735-544	43-S-8770-554
	7/8	43-S-8096	43-S-9110	43-S-8644	43-S-7735-548	43-S-8770-558
	1	43-S-8098	43-S-9112	43-S-8646	43-S-7735-552	43-S-8770-562
	1 1/8	43-S-8100	43-S-9114	43-S-8648	43-S-7735-556	43-S-8770-566
	1 1/4	43-S-8102	43-S-9116	43-S-8650	43-S-7735-560	43-S-8770-570
	1 1/2	43-S-8106	43-S-9120	43-S-8652	43-S-7735-564	43-S-8770-574
	1 3/4	43-S-8109	43-S-9122	43-S-8654	43-S-7735-568	43-S-8770-578
	2	43-S-8110	43-S-9124	43-S-8656	43-S-7735-572	43-S-8770-582
	2 1/4	43-S-8112	43-S-9126	43-S-8658	43-S-7735-576	43-S-8770-586
	2 1/2	43-S-8114	43-S-9128	43-S-8660	43-S-7735-580	43-S-8770-590
	2 3/4	43-S-8116	43-S-9130	43-S-8662	43-S-7735-584	43-S-8770-594
	3	43-S-8118	43-S-9132	43-S-8664	43-S-7735-588	43-S-8770-598
	1/4"-20	5/16	43-S-8128	43-S-9151	43-S-8680	43-S-7735-600	43-S-8770-600
3/8		43-S-8130	43-S-9152	43-S-8682	43-S-7735-604	43-S-8770-604
7/16		43-S-8131	43-S-9153	43-S-8684	43-S-7735-608	43-S-8770-608
1/2		43-S-8132	43-S-9154	43-S-8686	43-S-7735-612	43-S-8770-612
9/16					43-S-7735-616	43-S-8770-616
5/8		43-S-8134	43-S-9156	43-S-8688	43-S-7735-620	43-S-8770-620
3/4		43-S-8136	43-S-9158	43-S-8690	43-S-7735-624	43-S-8770-624
7/8		43-S-8138	43-S-9160	43-S-8692	43-S-7735-628	43-S-8770-628
1		43-S-8140	43-S-9162	43-S-8694	43-S-7735-632	43-S-8770-632
1 1/8		43-S-8142	43-S-9164	43-S-8696	43-S-7735-636	43-S-8770-636
1 1/4		43-S-8144	43-S-9166	43-S-8698	43-S-7735-640	43-S-8770-640
1 1/2		43-S-8148	43-S-9170	43-S-8700	43-S-7735-644	43-S-8770-644
1 3/4		43-S-8150	43-S-9172	43-S-8702	43-S-7735-648	43-S-8770-648

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
1/4"-20	2	43-S-8152	43-S-9174	43-S-8704	43-S-7735-652	43-S-8770-652
	2 1/4	43-S-8154	43-S-9176	43-S-8706	43-S-7735-656	43-S-8770-656
	2 1/2	43-S-8156	43-S-9178	43-S-8708	43-S-7735-660	43-S-8770-660
	2 3/4	43-S-8158	43-S-9180	43-S-8710	43-S-7735-664	43-S-8770-664
	3	43-S-8160	43-S-9182	43-S-8712	43-S-7735-668	43-S-8770-668
	3 1/4	43-S-8160-20				
	3 1/2	43-S-8160-40				
	3 3/4	43-S-8160-60				
	4	43-S-8160-80				
	5/16"-18	3/8	43-S-8166	43-S-9200	43-S-8720	43-S-7735-676	43-S-8770-675
7/16		43-S-8168	43-S-9201	43-S-8722	43-S-7735-680	43-S-8770-679
1/2		43-S-8170	43-S-9202	43-S-8724	43-S-7735-684	43-S-8770-683
9/16					43-S-7735-688	43-S-8770-687
5/8		43-S-8172	43-S-9204	43-S-8726	43-S-7735-692	43-S-8770-691
3/4		43-S-8174	43-S-9206	43-S-8728	43-S-7735-696	43-S-8770-695
7/8		43-S-8176	43-S-9208	43-S-8730	43-S-7735-700	43-S-8770-699
1		43-S-8178	43-S-9210	43-S-8732	43-S-7735-704	43-S-8770-703
1 1/8		43-S-8180	43-S-9212	43-S-8734	43-S-7735-708	43-S-8770-707
1 1/4		43-S-8182	43-S-9214	43-S-8736	43-S-7735-712	43-S-8770-711
1 1/2		43-S-8186	43-S-9218	43-S-8738	43-S-7735-716	43-S-8770-715
1 3/4		43-S-8188	43-S-9220	43-S-8740	43-S-7735-720	43-S-8770-719
2		43-S-8190	43-S-9222	43-S-8742	43-S-7735-724	43-S-8770-723
2 1/4		43-S-8192	43-S-9223	43-S-8744	43-S-7735-728	43-S-8770-727
2 1/2		43-S-8194	43-S-9224	43-S-8746	43-S-7735-732	43-S-8770-731
2 3/4		43-S-8196	43-S-9225	43-S-8748	43-S-7735-736	43-S-8770-735
3		43-S-8198	43-S-9226	43-S-8750	43-S-7735-740	43-S-8770-739
3 1/4		43-S-8198-20				
3 1/2		43-S-8199				
3 3/4		43-S-8199-20				
4		43-S-8199-40				

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
3/8"-16	3/8		43-S-9244			
	1/2	43-S-8210	43-S-9246	43-S-8760-8	43-S-7735-750	43-S-8770-750
	9/16				43-S-7735-754	43-S-8770-754
	5/8	43-S-8212	43-S-9248	43-S-8760-11	43-S-7735-758	43-S-8770-758
	3/4	43-S-8214	43-S-9250	43-S-8760-14	43-S-7735-762	43-S-8770-762
	7/8	43-S-8216	43-S-9252	43-S-8760-17	43-S-7735-766	43-S-8770-766
	1	43-S-8218	43-S-8254	43-S-8760-20	43-S-7735-770	43-S-8770-770
	1 1/8	43-S-8220	43-S-9256	43-S-8760-23	43-S-7735-774	43-S-8770-774
	1 1/4	43-S-8222	43-S-9258	43-S-8760-26	43-S-7735-778	43-S-8770-778
	1 1/2	43-S-8226	43-S-9262	43-S-8760-29	43-S-7735-782	43-S-8770-782
	1 3/4	43-S-8228	43-S-9264	43-S-8760-32	43-S-7735-786	43-S-8770-786
	2	43-S-8230	43-S-9266	43-S-8760-35	43-S-7735-790	43-S-8770-790
	2 1/4	43-S-8231	43-S-9268	43-S-8760-38	43-S-7735-794	43-S-8770-794
	2 1/2	43-S-8232	43-S-9270	43-S-8760-41	43-S-7735-798	43-S-8770-798
	2 3/4	43-S-8234	43-S-9272	43-S-8760-44	43-S-7735-802	43-S-8770-802
	3	43-S-8236	43-S-9274	43-S-8760-47	43-S-7735-806	43-S-8770-806
	3 1/4	43-S-8236-20				
	3 1/2	43-S-8237				
	3 3/4	43-S-8237-20				
	4	43-S-8237-40				
7/16"-14	1/2	43-S-8246-40			43-S-7735-826	43-S-8770-825
	5/8	43-S-8247			43-S-7735-830	43-S-8770-829
	3/4	43-S-8248	43-S-9300		43-S-7735-834	43-S-8770-833
	7/8	43-S-8250			43-S-7735-838	43-S-8770-837
	1	43-S-8252	43-S-9304		43-S-7735-842	43-S-8770-841
	1 1/8				43-S-7735-846	43-S-8770-845
	1 1/4	43-S-8254			43-S-7735-850	43-S-8770-849
	1 1/2	43-S-8256			43-S-7735-854	43-S-8770-853
	1 3/4	43-S-8258			43-S-7735-858	43-S-8770-857
	2	43-S-8260	43-S-9316		43-S-7735-862	43-S-8770-861
2 1/4	43-S-8262			43-S-7735-866	43-S-8770-865	
2 1/2	43-S-8264					

**STANDARD NAVY STOCK NUMBERS OF COMMERCIAL BRASS (uncoated) MACHINE SCREWS
NATIONAL COARSE THREAD - CLASS 2 FIT**

Diameter and TPI	Length (Inches)	Slotted Flat Head	Slotted Round Head	Slotted Oval Head	Recessed Flat Head	Recessed Round Head
7/16" - 14	2 3/4	43-S-8266	43-S-9324		43-S-7735-870	43-S-8770-869
	3	43-S-8268			43-S-7735-874	43-S-8770-873
	3 1/4	43-S-8270				
	3 1/2	43-S-8272				
	3 3/4	43-S-8274				
	4	43-S-8276				
1/2" - 13	5/8	43-S-8290	43-S-9350	43-S-8765-14	43-S-7735-896	43-S-8770-886
	3/4	43-S-8292			43-S-7735-900	43-S-8770-890
	7/8	43-S-8294			43-S-7735-904	43-S-8770-894
	1	43-S-8296	43-S-9354	43-S-8765-20	43-S-7735-908	43-S-8770-898
	1 1/8	43-S-8298	43-S-9356	43-S-8765-23		
	1 1/4	43-S-8300	43-S-9358	43-S-8765-26	43-S-7735-916	43-S-8770-906
	1 1/2	43-S-8304	43-S-9360	43-S-8765-29	43-S-7735-920	43-S-8770-910
	1 3/4	43-S-8305	43-S-9362	43-S-8765-32	43-S-7735-924	43-S-8770-914
	2	43-S-8306	43-S-9366	43-S-8765-35	43-S-7735-928	43-S-8770-916
	2 1/4	43-S-8308	43-S-9368	43-S-8765-38	43-S-7735-932	43-S-8770-918
	2 1/2	43-S-8310	43-S-9370	43-S-8765-41	43-S-7735-936	43-S-8770-920
	2 3/4	43-S-8312	43-S-9372	43-S-8765-44	43-S-7735-940	43-S-8770-924
	3	43-S-8314	43-S-9374	43-S-8765-47	43-S-7735-944	43-S-8770-928
	3 1/4	43-S-8314-20			43-S-7735-946	
	3 1/2	43-S-8314-40			43-S-7735-948	
	3 3/4	43-S-8314-500			43-S-7735-950	
	4	43-S-8314-520	43-S-9382		43-S-7735-952	
	5/8" - 11	1	43-S-8332			43-S-7736-24
1 1/4		43-S-8336	43-S-7736-32			43-S-8771-32
1 1/2		43-S-8338	43-S-7736-36			43-S-8771-36
1 3/4		43-S-8340	43-S-7736-40			43-S-8771-40
2		43-S-8344	43-S-7736-44			43-S-8771-44
2 1/4		43-S-8345	43-S-7736-48			43-S-8771-48
2 1/2		43-S-8346	43-S-7736-52			43-S-8771-52
2 3/4		43-S-8347	43-S-7736-56			43-S-8771-56
3		43-S-8348	43-S-7736-60			43-S-8771-60
3 1/4		43-S-8348-20	43-S-7736-62			43-S-8771-64
3 1/2		43-S-8348-40	43-S-7736-64			43-S-8771-68
3 3/4		43-S-8348-60	43-S-7736-66			43-S-8771-72
4	43-S-8348-80	43-S-7736-68	43-S-8771-76			

HEXAGON AND SQUARE MACHINE SCREW NUTS AND JAM NUTS CLASS 2 FIT

	Hexagon Head Machine Nuts (Commercial Brass)	Hexagon Head Machine Nuts (Uncoated Black)	Hexagon Head Jam Nuts (Steel Black)	Square Machine Nuts (Steel Uncoated)				
Screw or Bolt Diameter	STANDARD NAVY STOCK NUMBER				Threads Per (Inch)	Major Diameter (Inches)	Pitch Diameter (Inches)	Minor Diameter (Inches)
No. 1	43-N-4700	43-N-5000			64	0.073	0.0629	0.0527
2	43-N-4701	43-N-5001			56	.086	.0744	.0628
3	43-N-4702	43-N-5002			48	.099	.0855	.0719
4	43-N-4703	43-N-5003			40	.112	.0958	.0795
5	43-N-4704	43-N-5004		43-N-5254	40	.125	.1088	.0925
6	43-N-4705	43-N-5005			32	.138	.1177	.0974
8	43-N-4707	43-N-5007		43-N-5258	32	.164	.1437	.1234
10	43-N-4709	43-N-5009		43-N-5260	24	.190	.1629	.1359
12	43-N-4710	43-N-5010			24	.216	.1889	.1619
1/4"	43-N-4712	43-N-5012	43-N-3702	43-N-5264	20	.2500	.2175	.1850
5/16"	43-N-4714	43-N-5014	43-N-3704	43-N-5266	18	.3125	.2764	.2403
3/8"	43-N-4715	43-N-5015	43-N-3706	43-N-5268	16	.3750	.3344	.2938
7/16"			43-N-3708		14	.4375	.3911	.3447

ORIGINAL

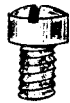
SCREW AND BOLT HEAD TYPES



ROUND HEAD



FLAT HEAD



FILLISTER HEAD



OVAL HEAD



OVAL BINDING HEAD



STRAIGHTSIDE BINDING HEAD



WASHER HEAD



SQUARE HEAD



HEXAGON HEAD



FILLISTER BINDING HEAD



FLAT FILLISTER HEAD



FLAT TOP BINDING HEAD



CHEESE HEAD



KNOB SCREW HEAD



*PHOENIX HEAD



LENTIL HEAD



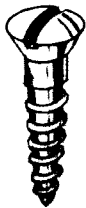
COCK SCREW HEAD



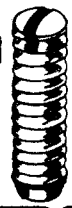
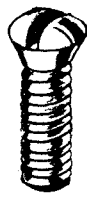
PLUMBERS HEAD

*LONGER TAPER THAN OVAL HEAD

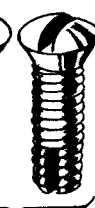
REPRESENTATIVE SCREW TYPES



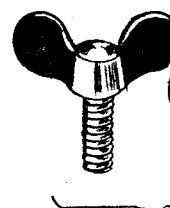
WOOD MACHINE



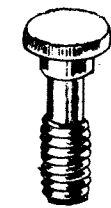
SET



SELF-TAPPING



THUMB



CAPTIVE



LAG



DOWEL



PILOT



PIVOT



SPADE



EYE



DRIVE

TYPES OF RECESSED DRIVES



SLOT



ONE WAY



CLUTCH



PHILLIPS



BRISTOL (MULTIPLE SPLINE)



ALLEN (HEX)

SET SCREW POINTS



CUP



CONE



FLAT



FULL DOG



OVAL



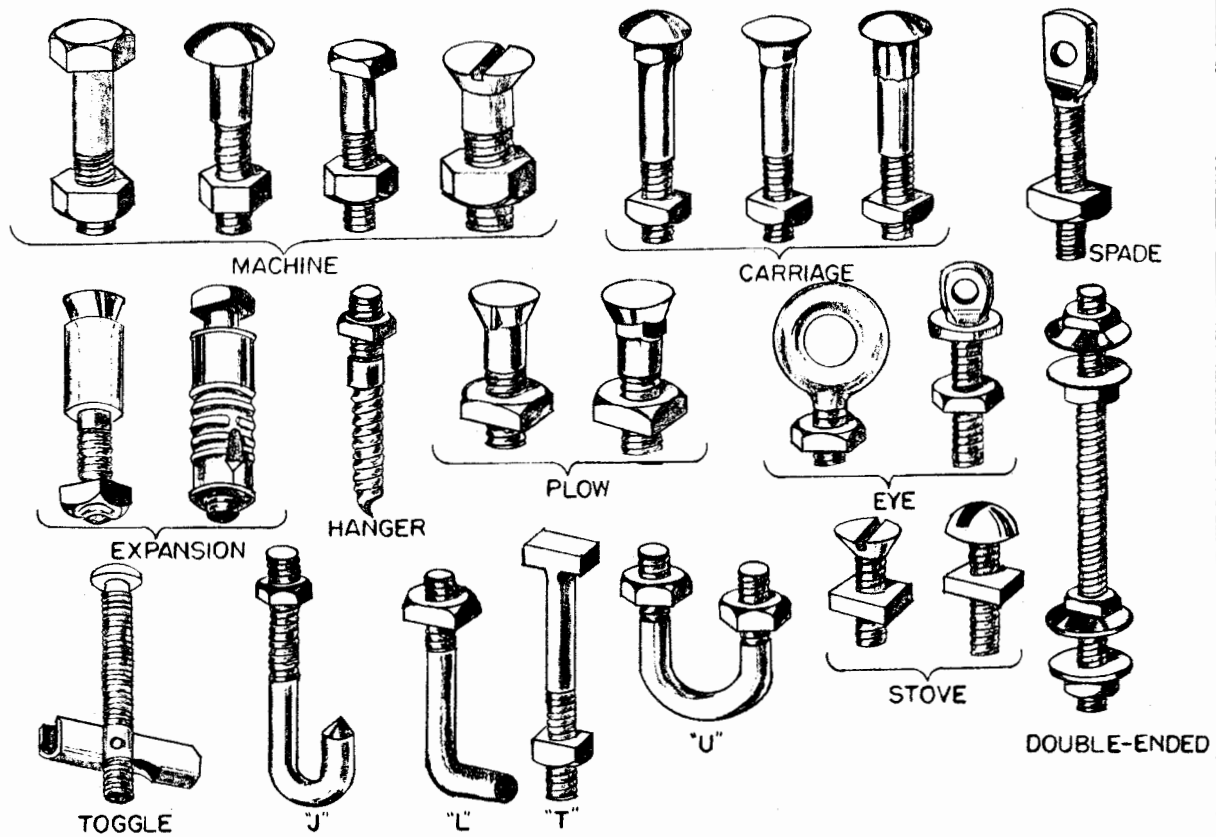
HANGER



HALF DOG

Figure 18-4. Types of Screws

REPRESENTATIVE BOLT TYPES



REPRESENTATIVE WASHER TYPE

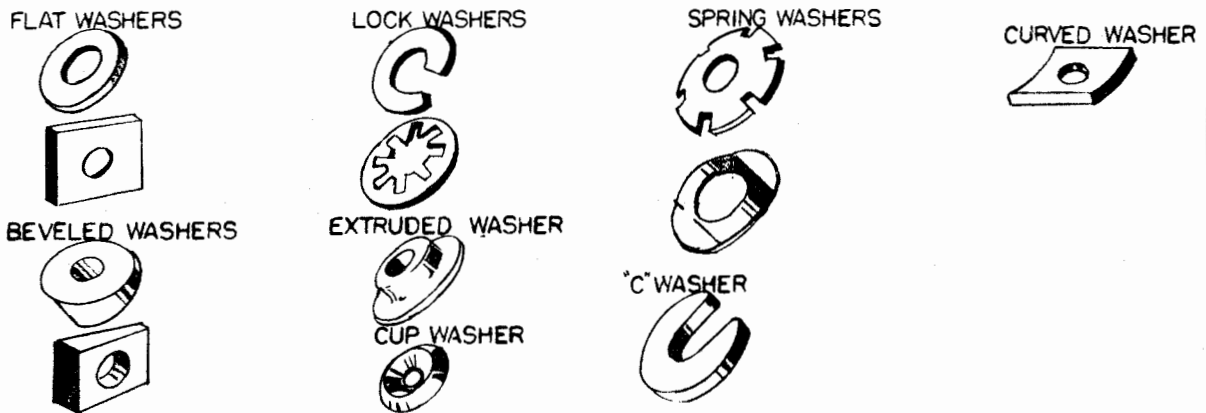


Figure 18-5. Types of Bolts and Washers

REPRESENTATIVE NUT TYPES

PACKING NUT



HEX NUT



CAP NUT



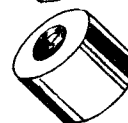
CASTELLATED NUTS



THUMB NUTS



ROUND NUTS



LOCK NUTS



SQUARE NUT



ANCHOR NUTS



EYE NUTS



Figure 18-6. Types of Nuts

SCREW THREADS

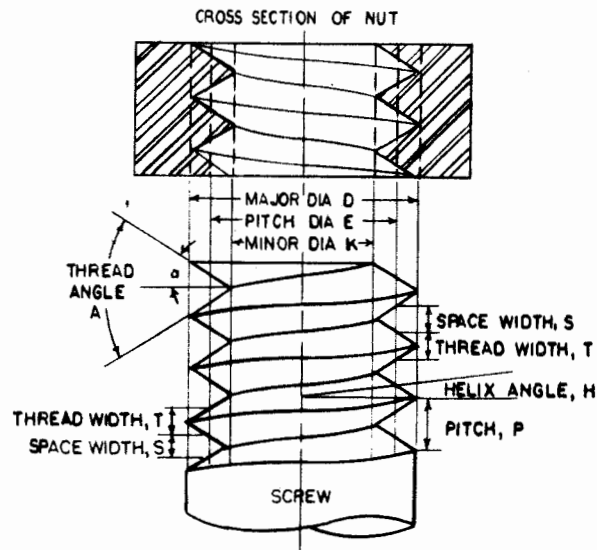


Figure 18-7. Screw Threads

COMMERCIAL WIRE GAGES

Gage Number	American Steel & Wire Co. Gage (Washburn & Moen Gage) (Steel Wire Gage)	American Wire Gage (Brown & Sharpe Gage)	Birmingham Wire Gage (Stub Iron Wire Gage)	British Imperial Standard (SWG)
00000	0.4305	0.51650	0.500	0.4320
0000	.3938	.4600	.454	.4000
000	.3625	.40964	.425	.3720
00	.3310	.36480	.380	.3480
0	.3065	.32486	.340	.3240
1	.2830	.28930	.300	.3000
2	.2625	.25763	.284	.2760
3	.2437	.22942	.259	.2520
4	.2253	.20431	.238	.2320
5	.2070	.18194	.220	.2120
6	.1920	.16202	.203	.1920
7	.1770	.14428	.180	.1760
8	.1620	.12849	.165	.1600
9	.1483	.11443	.148	.1440
10	.1350	.10189	.134	.1280
11	.1205	.09074	.120	.1160
12	.1055	.08081	.109	.1040
13	.0915	.07196	.095	.0920
14	.0800	.06408	.083	.0800
15	.0720	.05706	.072	.0720
16	.0625	.05082	.065	.0640
17	.0540	.04525	.058	.0560
18	.0475	.04030	.049	.0480
19	.0410	.03589	.042	.0400
20	.0348	.03196	.035	.0360
21	0.0317	0.02846	0.032	0.0320
22	.0286	.02535	.028	.0280
23	.0258	.02257	.025	.0240
24	.0230	.02010	.022	.0220
25	.0204	.01790	.020	.0200
26	.0181	.01594	.018	.0180
27	.0173	.01420	.016	.0164
28	.0162	.01264	.014	.0148
29	.0150	.01126	.013	.0136
30	.0140	.01003	.012	.0124
31	.0132	.00893	.010	.0116
32	.0128	.00795	.009	.0108
33	.0118	.00708	.008	.0100
34	.0104	.00630	.007	.0092
35	.0095	.00561	.005	.0084
36	.0090	.00500	.004	.0076
37	.0085	.00445	.....	.0068
38	.0080	.00396	.....	.0060
39	.0075	.00353	.....	.0052
40	.0070	.00314	.....	.0048

COMMERCIAL WIRE GAGES

Comparison of Wire Gages -- Sizes of Decimals of an Inch and Equivalent Gage Numbers			
FOR	Iron & Steel Wire	USE	American Steel & Wire Co. Gage Washburn & Moen Gage Steel Wire Gage
FOR	Lead Wire	USE	Birmingham Wire Gage Stub s Iron Wire Gage
FOR	Aluminum, Brass, Copper, and other	USE	Brown & Sharpe Gage American Wire Gage
	Electrical Wires		

STANDARD METAL GAGES

Gage No.	American or B & S ¹	U. S. Standard ²	Birmingham ³ or Stub s
1	.2893	.28125	.300
2	.2576	.265625	.284
3	.2294	.25	.259
4	.2043	.234375	.238
5	.1819	.21875	.220
6	.1620	.203125	.203
7	.1443	.1875	.180
8	.1285	.171875	.165
9	.1144	.15625	.148
10	.1019	.140625	.134
11	.09074	.125	.120
12	.08081	.109375	.109
13	.07196	.09375	.095
14	.06408	.078125	.083
15	.05707	.0703125	.072
16	.05082	.0625	.065
17	.04526	.05625	.058
18	.04030	.05	.049
19	.03589	.04375	.042
20	.03196	.0375	.035
21	.02846	.034375	.032
22	.02535	.03125	.028
23	.02257	.028125	.025
24	.02010	.025	.022
25	.01790	.021875	.020
26	.01594	.01875	.018
27	.01420	.0171875	.016
28	.01264	.015625	.014
29	.01126	.0140625	.013
30	.01003	.0125	.012
31	.008928	.0109375	.010
32	.007950	.01015626	.009

STANDARD METAL GAGES (Cont'd)

Gage No.	American or B & S ¹	U. S. Standard ²	Birmingham or Stub s ³
33	.007080	.009375	.008
34	.006350	.00859375	.007
35	.005615	.0078125	.005
36	.005000	.00703125	.004
37	.004453	.006640626	.....
38	.003965	.00625	.....
39	.003531	.....	.....
40	.003145	.....	.....

¹ Used for aluminum, copper, brass and nonferrous alloy sheets wire and rods.

² Used for iron, steel, nickel and ferrous alloy sheets, wire and rods.

³ Used for seamless tubes; also by some manufacturers for copper and brass.

MAGNET WIRE TABLE

Single Cotton				Double Cotton		
Size AWG	Nominal Diameter Inches	Pounds Per 1000 Feet	Resistance * Ohms Per Pound	Nominal Diameter Inches	Pounds Per 1000 Feet	Resistance * Ohms Per Pound
4/0	.4674	642.6	.000078	.4748	645.1	.000076
3/0	.4170	510.8	.000129	.4244	512.0	.000121
2/0	.3722	404.5	.000193	.3796	406.5	.000192
1/0	.3323	321.0	.000306	.3397	322.8	.000304
1	.2967	254.6	.000504	.3041	256.2	.000484
2	.2650	202.0	.000774	.2724	203.4	.000768
3	.2368	160.3	.001229	.2442	161.5	.001220
4	.2117	127.3	.001947	.2191	128.4	.001936
5	.1893	101.2	.003095	.1967	101.8	.003077
6	.1694	80.3	.004917	.1750	80.83	.004888
7	.1517	63.7	.007820	.1573	64.40	.007736
8	.1359	50.6	.01243	.1415	51.07	.01230
9	.1208	40.1	.01975	.1255	40.56	.01953
10	.1074	31.8	.03137	.1120	32.24	.03084
11	.0953	25.3	.04985	.0995	25.65	.04913
12	.0854	20.1	.07906	.0896	20.41	.07782
13	.0766	16.0	.1255	.0808	16.24	.1234
14	.0687	12.7	.1990	.0729	12.92	.1954
15	.0617	10.1	.3158	.0659	10.29	.3095
16	.0554	8.02	.5008	.0596	8.198	.4899
17	.0499	6.37	.7947	.0541	6.540	.7743
18	.0449	5.07	1.256	.0491	5.224	1.222
19	.0405	4.03	1.996	.0447	4.175	1.928
20	.0366	3.21	3.160	.0408	3.334	3.044
21	.0331	2.56	4.999	.0373	2.664	4.805
22	.0299	2.05	7.890	.0336	2.128	7.585
23	.0272	1.63	12.46	.0309	1.703	11.95
24	.0247	1.31	19.64	.0284	1.372	18.71
25	.0220	1.04	30.98	.0257	1.107	29.25
26	.0200	.836	48.80	.0237	.8934	45.68
27	.0183	.670	76.85	.0220	.7251	70.99
28	.0167	.538	120.6	.0204	.5899	110.0
29	.0154	.433	188.9	.0191	.4816	169.9
30	.0141	.340	303.3	.0178	.3910	263.9
31	.0130	.275	472.8	.0167	.3222	403.8
32	.0121	.223	735.7	.0158	.2677	612.9
33	.0112	.182	1,134	.0149	.2242	922.7
34	.0104	.151	1,727	.0141	.1894	1,315
35	.0097	.126	2,620	.0134	.1614	2,039
36	.0087	.105	3,941	.0124	.1428	2,905
37	.0082	.087	5,995	.0119	.1238	4,226
38	.0077	.073	9,092	.0114	.1121	5,884
39	.0072	.061	13,643	.0109	.1041	7,992
40	.0068	.052	20,012	.0105	.0905	11,594

* All resistances are at 20° C., 68° F.

**MAGNET WIRE TABLE
BARE COPPER WIRE**

Size AWG	Nominal Diameter Inches	Area Square Inches	Area Circular Mils	Pounds Per 1000 Feet	Feet Per Pound	*Resistance Ohms Per 1000 Feet	* Resistance Ohms Per Pounds
4/0	.4600	.1662	211,600	640.5	1.561	.04901	.00007652
3/0	.4096	.1318	167,800	507.9	1.968	.06180	.0001217
2/0	.3648	.1045	133,100	402.8	2.482	.07793	.0001935
1/0	.3249	.08289	105,500	319.5	3.130	.09827	.0003076
1	.2893	.06573	83,690	253.3	3.947	.1239	.0004891
2	.2576	.05213	66,370	200.9	4.977	.1563	.0007778
3	.2294	.04134	52,640	159.3	6.276	.1970	.001237
4	.2043	.03278	41,740	126.4	7.914	.2485	.001966
5	.1819	.02600	33,100	100.2	9.980	.3133	.003127
6	.1620	.02062	26,250	79.46	12.58	.3951	.004972
7	.1443	.01635	20,820	63.02	15.87	.4982	.007905
8	.1285	.01297	16,510	49.98	20.01	.6282	.01257
9	.1144	.01028	13,090	39.63	25.23	.7921	.01999
10	.1019	.008155	10,380	31.43	31.82	.9989	.01378
11	.09074	.006467	8,234	24.92	40.12	1.260	.05053
12	.08081	.005129	6,530	19.77	50.59	1.588	.08035
13	.07196	.004067	5,178	15.68	63.80	2.003	.1278
14	.06408	.003225	4,107	12.43	80.44	2.525	.2032
15	.05707	.002558	3,257	9.858	101.4	3.184	.3230
16	.05082	.002028	2,583	7.818	127.9	4.016	.5136
17	.04526	.001609	2,048	6.200	161.3	5.064	.8167
18	.04030	.001276	1,624	4,917	203.4	6.385	1.299
19	.03589	.001012	1,288	3.899	256.5	8.051	2.065
20	.03196	.0008023	1,022	3.092	323.4	10.15	3.283
21	.02846	.0006363	810.1	2.452	407.8	12.80	5.221
22	.02535	.0005046	642.4	1.945	514.2	16.14	8.301
23	.02257	.0004002	509.5	1.542	648.2	20.36	13.20
24	.02010	.0003173	404.0	1.223	817.7	25.67	20.99
25	.01790	.0002517	320.4	.9699	1,031	32.37	33.37
26	.01594	.0001996	254.1	.7692	1,300	40.81	53.06

* All resistances are at 20° C, 68° F

**MAGNET WIRE TABLE
BARE COPPER WIRE**

Size AWG	Nominal Diameter Inches	Area Square Inches	Area Circular Mils	Pounds Per 1000 Feet	Feet Per Pound	* Resistance Ohms Per 1000 Feet	* Resistance Ohms Per Pounds
27	.01420	.0001583	201.5	.6100	1,639	51.47	84.37
28	.01264	.0001255	159.8	.4837	2,067	64.90	134.2
29	.01126	.00009953	126.7	.3836	2,607	81.83	213.3
30	.01003	.00007894	100.5	.3042	3,287	103.2	339.2
31	.008928	.00006260	79.70	.2413	4,145	130.1	539.3
32	.007950	.00004964	63.21	.1913	5,227	164.1	857.6
33	.007080	.00003937	50.13	.1517	6,591	206.9	1,364
34	.006305	.00003122	39.75	.1203	8,310	260.9	2,168
35	.005615	.00002476	31.52	.09542	10,480	329.0	3,448
36	.005000	.00001964	25.00	.07568	13,210	414.8	5,482
37	.004453	.00001557	19.83	.06001	16,660	523.1	8,717
38	.003965	.00001235	15.72	.04759	21,010	659.6	13,860
39	.003531	.000009793	12.47	.03774	26,500	831.8	22,040
40	.003145	.000007766	9.888	.02993	33,410	1,049	35,040
41	.002800	.000006157	7.84	.02373	42,140	1,323	55,740
42	.002493	.000004881	6.215	.01881	53,160	1,669	88,700
43	.002220	.000003870	4.928	.01492	67,020	2,104	141,000
44	.001977	.000003069	3.908	.01183	84,530	2,654	224,300
45	.001760	.000002433	3.097	.009377	106,600	3,348	357,000
46	.001567	.000001928	2.455	.007431	134,600	4,225	568,500

*All resistances are at 20° C., 68° F.

COPPER BUS BAR

Thickness (In Inches)	Width (In Inches)	Weight Per Linear Foot (In Pounds)	Ampere Capacity	
			At 1000 Amperes/in ²	At 800 Amperes/in ²
1/16	1/2	.121	31	25
1/16	3/4	.181	47	38
1/16	1	.241	63	50
1/8	1/2	.241	63	50
1/8	3/4	.362	94	75
1/8	1	.482	125	100
1/8	1 1/4	.603	156	125
1/8	1 1/2	.723	188	150
1/8	1 3/4	.844	219	175
1/8	2	.964	250	200
1/8	2 1/2	1.21	313	250
1/8	3	1.45	375	300
1/4	1/2	.482	125	100
1/4	3/4	.723	188	150
1/4	1	.964	250	200
1/4	1 1/4	1.21	313	250
1/4	1 1/2	1.45	375	300
1/4	1 3/4	1.69	438	350
1/4	2	1.93	500	400
1/4	2 1/2	2.41	625	500
1/4	3	2.89	750	600
3/8	1	1.45	375	300
3/8	1 1/4	1.81	469	375
3/8	1 1/2	2.17	563	450
3/8	1 3/4	2.53	657	525
3/8	2	2.89	750	600
3/8	2 1/2	3.62	938	750
3/8	3	4.34	1125	900

WIRE ROPE TABLE

Type A, 6 by 19 wire rope, extra strong cast steel, galvanized, fiber core

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Uncoated		Galvanized	
In. Frac.	In. Dec.		In. Frac.	In. Dec.		Nominal Breaking Strength	Minimum Breaking Strength	Nominal Breaking Strength	Minimum Breaking Strength
					Pounds	Tons (2000 lbs)	Pounds	Tons (2000 lbs)	Pounds
1/4	0.250	22-R-800	9/32	0.281	0.10	2.3	4,480	2.07	4,040
5/16	.312	805	11/32	.344	.16	3.5	6,820	3.15	6,140
3/8	.375	810	13/32	.406	.23	5.0	9,800	4.50	8,780
7/16	.438	815	15/32	.469	.31	6.6	12,900	5.94	11,600
1/2	.500	820	17/32	.531	.40	8.5	16,600	7.65	14,900
9/16	.562	825	19/32	.594	.51	10.6	20,700	9.54	18,600
5/8	.625	830	21/32	.656	.63	13.1	25,500	11.8	23,000
3/4	.750	835	25/32	.781	.90	18.7	36,500	16.8	32,800
7/8	.875	840	59/64	.922	1.23	25.4	49,500	22.9	44,700
1	1.000	845	1 3/64	1.047	1.60	33.0	64,400	29.7	57,900
1 1/8	1.215	850	1 11/64	1.172	2.03	41.5	80,900	37.4	72,900
1 1/4	1.250	855	1 5/16	1.312	2.50	51.0	99,400	45.9	89,500
1 3/8	1.375	860	1 7/16	1.438	3.03	61.5	112,000	55.4	108,000
1 1/2	1.500	865	1 9/16	1.562	3.60	72.5	141,000	65.2	127,000
1 5/8	1.625		1 23/32	1.719	4.23	85	166,000	76.5	149,000
1 3/4	1.750		1 27/32	1,844	4.90	98	191,000	88.2	172,000
1 7/8	1.875	880	1 31/32	1.969	5.63	112	218,000	101	197,000
2	2.000		2 3/32	2.094	6.40	127	248,000	114	223,000
2 1/4	2.250		2 11/32	2.344	8.10	160	312,000	144	281,000
2 1/2	2.500		2 5/8	2.625	10.00	195	380,000	176	342,000
2 3/4	2.750		2 7/8	2.875	12.10	234	456,000	211	411,000

WIRE ROPE TABLE

Type B, 6 by 19 wire rope, high - grade plow steel, galvanized, fiber core

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Uncoated		Galvanized	
In. Frac.	In. Dec.		In. Frac.	In. Dec.		Nominal Breaking Strength	Minimum Breaking Strength	Nominal Breaking Strength	Minimum Breaking Strength
					Pounds	Tons (2000 lbs)	Pounds	Tons (2000 lbs)	Pounds
1/4	0.250	22-R-1640	9/32	0.281	0.10	2.9	5,660	2.61	5,090
5/16	.312	1645	11/32	.344	.16	4.5	8,780	4.05	7,900
3/8	.375	1650	13/32	.406	.23	6.3	12,300	5.67	11,100
7/16	.438	1655	15/32	.469	.31	8.4	16,400	7.56	14,700
1/2	.500	1660	17/32	.531	.40	10.8	21,100	9.72	19,000
9/16	.562	1665	19/32	.594	.51	13.5	26,300	12.2	23,800
5/8	.625	1670	21/32	.656	.63	16.6	32,400	14.9	29,100
3/4	.750	1675	25/32	.781	.90	23.7	46,200	21.3	41,500
7/8	.875	1680	59/64	.922	1.23	32.2	62,800	29.0	56,600
1	1.000	1685	1 3/64	1.047	1.60	42.0	81,900	37.8	73,700
1 1/8	1.125	1690	11 1/64	1.172	2.03	53.0	103,000	47.7	93,000
1 1/4	1.250	1695	1 5/16	1.312	2.50	65.0	127,000	58.5	114,000
1 3/8	1.375	1700	1 7/16	1.438	3.03	78.5	153,000	70.6	138,000
1 1/2	1.500	1705	1 9/16	1.562	3.60	92.5	180,000	83.2	162,000
1 5/8	1.625	1710	1 23/32	1.719	4.23	108	211,000	97.2	190,000
1 3/4	1.750	1715	1 27/32	1.844	4.90	124	242,000	112	218,000
1 7/8	1.875	1720	1 31/32	1.969	5.63	142	277,000	128	249,000
2	2.000	1725	2 3/32	2.094	6.40	161	314,000	145	283,000
2 1/4	2.250	1730	2 11/32	2.344	8.10	202	394,000	182	355,000
2 1/2	2.500	1735	2 5/8	2.625	10.00	246	480,000	221	432,000
2 3/4	2.750	1740	2 7/8	2.875	12.10	294	573,000	265	516,000

WIRE ROPE TABLE

Type C, 6 by 19 wire rope, phosphor bronze, fiber core.

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Nominal Breaking Strength	Minimum Breaking Strength
In. Frac.	In. Dec.		In. Frac.	In. Dec.			
					Pounds	Tons (2000 lbs)	Pounds
3/16	0.188	22-R-194	7/32	0.219	0.065	0.66	1,210
1/4	.250	195	9/32	.281	.11	1.19	2,140
5/16	.312	200	11/32	.344	.16	1.84	3,310
3/8	.375	205	13/32	.406	.23	2.62	4,720
7/16	.438	210	15/32	.469	.32	3.54	6,370
1/2	.500	215	17/32	.531	.41	4.61	8,300
9/16	.562	220	19/32	.594	.52	5.75	10,400
5/8	.625	225	21/32	.656	.64	7.08	12,700
3/4	.750	230	25/32	.781	.92	9.98	18,000
13/16	.812	235	55/64	.859	1.08	11.6	20,900
7/8	.875	240	59/64	.922	1.26	13.4	24,100

WIRE ROPE TABLE

Type F, 6 by 12 wire rope, cast steel, galvanized, fiber core

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Nominal Breaking Strength	Minimum Breaking Strength
In. Frac.	In. Dec.		In. Frac.	In. Dec.	Pounds	Tons (2000 lbs)	Pounds
5/16	0.312	22-R-325	11/32	0.344	0.10	1.76	3,430
3/8	.375	330	13/32	.406	.15	2.47	4,820
7/16	.438	335	15/32	.469	.20	3.29	6,420
1/2	.500	340	17/32	.531	.26	4.23	8,250
9/16	.562	345	19/32	.594	.33	5.26	10,300
5/8	.625	350	21/32	.656	.41	6.46	12,600
3/4	.750	355	25/32	.781	.59	9.26	18,100
13/16	.812	360	55/64	.859	.69	10.8	21,100
7/8	.875	365	59/64	.922	.80	12.5	24,400
1	1.000	370	1 3/64	1.047	1.05	16.3	31,800
1 1/16	1.062	375	1 7/64	1.109	1.19	18.3	35,700
1 1/8	1.125	380	1 11/64	1.172	1.33	20.5	40,000
1 3/16	1.188	385	1 1/4	1.250	1.48	22.8	44,500
1 1/4	1.250	390	1 5/16	1.312	1.64	25.1	48,900
1 3/8	1.375	395	1 7/16	1.438	1.99	30.2	58,900
1 7/16	1.438	400	1 1/2	1.500	2.17	33.0	64,400
1 1/2	1.500		1 9/16	1.562	2.36	35.8	69,800
1 5/8	1.625	410	1 23/32	1.719	2.77	41.8	81,500
1 11/16	1.688	415	1 25/32	1.781	2.99	45.0	87,800
1 3/4	1.750	420	1 27/32	1.844	3.22	48.3	94,200
1 13/16	1.812	425	1 29/32	1.906	3.45	51.7	101,000
1 15/16	1.938	430	2 1/32	2.031	3.94	59.0	115,000
2	2.000		2 3/32	2.094	4.20	62.7	122,000
2 1/16	2.062	440	2 5/32	2.156	4.47	66.6	130,000

WIRE ROPE TABLE

Type G, 6 by 12 wire rope, high-grade plow steel, galvanized, fiber core

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Nominal Breaking Strength	Minimum Breaking Strength
In. Frac.	In. Dec.		In. Frac.	In. Dec.			
		22-R-1515					
1/4	0.250		9/32	0.281	0.07	1.59	3,100
5/16	.312	1520	11/32	.344	.10	2.46	4,800
3/8	.375	1525	13/32	.406	.14	3.46	6,750
7/16	.438	1530	15/32	.469	.20	4.61	8,990
1/2	.500	1535	17/32	.531	.26	5.9	11,500
9/16	.562	1540	19/32	.594	.33	7.4	14,400
5/8	.625	1545	21/32	.656	.42	9.1	17,700
3/4	.750	1550	25/32	.781	.59	13.0	25,400
13/16	.812	1555	55/64	.859	.68	15.5	30,200
7/8	.875	1560	59/64	.922	.80	17.7	34,000
1	1.000	1565	1 3/64	1.047	1.05	23.0	44,800
1 1/16	1.062	1570	1 7/64	1.109	1.18	26.0	50,700
1 1/8	1.125	1575	1 11/64	1.172	1.33	29.1	56,700
1 3/16	1.188	1580	1 1/4	1.250	1.47	32.3	63,000
1 1/4	1.250	1585	1 5/16	1.312	1.63	35.6	69,400
1 3/8	1.375	1590	1 7/16	1.438	2.00	43.0	83,800
1 7/16	1.438	1595	1 1/2	1.500	2.16	46.8	91,300
1 1/2	1.500	1600	1 9/16	1.562	2.36	50.9	99,300
1 5/8	1.625	1605	1 23/32	1.719	2.76	59.2	115,000
1 11/16	1.688		1 25/32	1.781	2.94	63.6	124,000
1 3/4	1.750	1615	1 27/32	1.844	3.23	68.2	133,000
1 13/16	1.812		1 29/32	1.906	3.42	72.8	142,000
1 15/16	1.938	1625	2 1/32	2.031	3.83	83.0	162,000
2	2.000	1630	2 3/32	2.094	4.20	88.3	172,000
2 1/16	2.062		2 5/32	2.156	4.43	93.4	182,000

WIRE ROPE TABLE

Type H, 6 by 12 wire rope, phosphor bronze, fiber core

Nominal Diameter, Minimum Diameter		Standard Navy Stock Number	Maximum Diameter		Approximate Weight Per Foot	Nominal Breaking Strength	Minimum Breaking Strength
In. Frac.	In. Dec.		In. Frac.	In. Dec.			
					Pounds	Tons (2000 lbs)	Pounds
1/4	0.250	22-R-145	9/32	0.281	0.075	0.71	1,270
5/16	.312	150	11/32	.344	.115	1.11	1,990
3/8	.375	155	13/32	.406	.168	1.59	2,860
7/16	.438	160	15/32	.469	.227	2.16	3,900
1/2	.500	165	17/32	.531	.295	2.83	5,090
9/16	.562	170	19/32	.594	.370	3.58	6,440
5/8	.625	175	21/32	.656	.460	4.42	7,950
3/4	.750	180	25/32	.781	.660	6.36	11,400
13/16	.812	185	55/64	.859	.766	7.46	13,400
7/8	.875	190	59/64	.922	.895	8.65	15,600

WIRE ROPE TABLE

Type M, 1 by 7 seizing strand, galvanized

Nominal Diameter, Minimum Diameter		Maximum Diameter		Approximate Weight Per Foot	Approximate Weight Of Reel	Approximate Length of Strand on Reel		Minimum Breaking Strength
Inch	Inch	Inch	Inch	Pounds	Pounds	Feet	Fathoms	Pounds
1/16	0.062	5/64	0.978	.010	50	5,000	834	140
3/32	.097	7/64	.109	.020	50	2,500	416	300
1/8	.125	9/64	.141	.033	50	1,500	250	530
5/32	.156	11/64	.172	.050	50	1,000	166	810

Type N, 1 by 19 seizing strand, galvanized

Nominal Diameter, Minimum Diameter		Maximum Diameter		Approximate Weight Per Foot	Approximate Weight Of Reel	Approximate Length of Strand on Reel		Minimum Breaking Strength
Inch	Inch	Inch	Inch	Pounds	Pounds	Feet	Fathoms	Pounds
3/16	0.188	13/64	0.203	0.080	100	1,200	200	1,100
1/4	.250	17/64	.266	.133	100	750	125	1,900

ANTENNA FUNDAMENTALS

LENGTH DETERMINATION

The shortest length of wire that is resonant at 150 mc is calculated as follows:

$$\text{Antenna length} = 0.5 \times \frac{300}{150 \text{ mc}} = 1 \text{ meter}$$

A wire one-half wavelength long at 150 megacycles is, therefore, 1 meter long.

A more practical formula is evolved by considering the velocity of light in feet:

$$\text{Wavelength } (\lambda) = \frac{984 \text{ feet}}{f \text{ (mc)}}$$

$$\text{For example: Length of } \left(\frac{\lambda}{2}\right) \text{ antenna at 150 mc} = \frac{0.5 \times 984}{150 \text{ mc}} = \frac{492}{150 \text{ mc}} = 3.28 \text{ feet}$$

COMPARISON OF ELECTRICAL AND PHYSICAL LENGTHS

In calculating the physical length of a half-wave antenna for frequencies up to 30 mc, the following formula is used:

$$\text{Length of } \left(\frac{\lambda}{2}\right) \text{ in feet} = \frac{492 \times 0.95}{f \text{ (mc)}} = \frac{468}{f \text{ (mc)}}$$

For frequencies above 50 mc, the capacitive end effects are more pronounced and the formula becomes:

$$\text{Length of } \left(\frac{\lambda}{2}\right) \text{ in feet} = \frac{492 \times 0.94}{f \text{ (mc)}} = \frac{462}{f \text{ (mc)}}$$

$$\text{Length of } \left(\frac{\lambda}{2}\right) \text{ in inches} = \frac{5550}{f \text{ (mc)}}$$

The length of a long-wire antenna for harmonic operation is calculated by the following formula:

$$\text{Length in feet} = \frac{492 (N-0.05)}{f \text{ (mc)}}$$

Where N = number of half wavelengths in total length of antenna.

CHARACTERISTIC IMPEDANCE

For coaxial or concentric cable lines, the following formula can be applied to determine the characteristic impedance Z_0 :

$$Z_0 = \frac{138}{\sqrt{k}} \log_{10} \frac{D}{d} \quad \begin{array}{l} \text{where } D = \text{inside diameter of outside conductor} \\ d = \text{outside diameter of center conductor} \\ k = \text{dielectric constant of dielectric material} \end{array}$$

For example, if a concentric cable has a 2-1/8 inch hollow brass tube as the outer conductor and a 1/2 inch copper tube as the inner conductor and air is the dielectric, the mathematical solution is as follows:

$$Z_0 = \frac{138}{\sqrt{k}} \log_{10} \frac{D}{d} \quad \begin{array}{l} \text{where } D = 2\frac{1}{8}'' \text{, inside diameter of } 2\frac{1}{8}'' \text{ hollow brass tube} \\ d = 0.5'' \text{, outside diameter of } 1/2'' \text{ copper tube} \\ k = 1 \text{ (dielectric of air)} \end{array}$$

$$Z_0 = \frac{138}{1} \log_{10} \frac{2}{0.5} = 138 \log_{10} 4 = 138 (0.602) = 83 \text{ ohms}$$

CONVERSION TABLE OF ELECTRICAL UNITS

Multiply	By	To Get
amperes	1,000,000,000,000	micromicroamperes
amperes	1,000,000	microamperes
amperes	1,000	milliamperes
cycles	.000,001	megacycles
cycles	.001	kilocycles
farads	1,000,000,000,000	micromicrofarads
farads	1,000,000	microfarads
henrys	1,000,000	microhenrys
henrys	1,000	millihenrys
kilocycles	1,000	cycles
kilovolts	1,000	volts
kilowatts	1,000	watts
megacycles	1,000,000	cycles
mhos	1,000,000	micromhos
microamperes	.000,001	amperes
microfarads	.000,001	farads
microhenrys	.000,001	henrys
micromhos	.000,001	mhos
micro-ohms	.000,001	ohms
microvolts	.000,001	volts
microwatts	.000,001	watts
micromicrofarads	.000,000,000,001	farads
milliamperes	.001	amperes
millihenrys	.001	henrys
millimhos	.001	mhos
milliohms	.001	ohms
millivolts	.001	volts
milliwatts	.001	watts
ohms	1,000,000	micro-ohms
volts	1,000,000	microvolts
volts	1,000	millivolts
watts	1,000,000	microwatts
watts	1,000	milliwatts
watts	.001	kilowatts

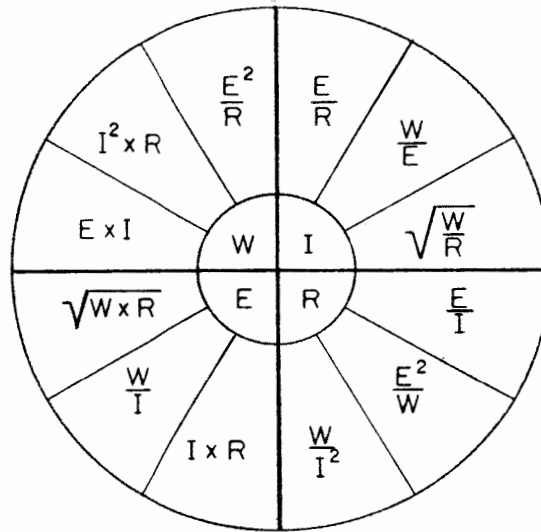


Figure 18-8. Ohms Law Table

TABLE OF CONVERSION FACTORS

To Convert	Multiply By	To Convert	Multiply By
AREA		LENGTH	
Circular Mils to Square Inches	.0000007854	Centimeters to Inches	.3937
Circular Mils to Square Mils	.7854	Centimeters to Feet	.03281
Circular Mils to Square Millimeters	.0005066	Feet to Centimeters	30.48
Square Centimeters to Square Inches	.155	Feet to Meters	.3048
Square Feet to Square Meters	.0929	Inches to Centimeters	2.54
Square Inches to Circular Mils	1.273×10^6	Inches to Meters	.0254
Square Inches to Square Centimeters	6.4516	Inches to Millimeters	25.4
Square Inches to Square Millimeters	645.16	Inches to Mils	1,000.
Square Meters to Square Feet	10.764	Kilometers to Miles	.6214
Square Inches to Square Mils	1,000,000.	Meters to Feet	3.2808
Square Millimeters to Square Inches	.00155	Meters to Inches	39.3701
Square Millimeters to Circular Mils	1,973.51	Meters to Yards	1.0936
Square Mils to Circular Mils	1.2732	Miles to Kilometers	1.6093
Square Mils to Square Inches	.000001	Millimeters to Inches	.03937
		Millimeters to Mils	39.3701
		Mils to Inches	.001
		Mils to Millimeters	.0254
		Yards to Meters	.9144

TABLE OF CONVERSION FACTORS (Cont'd)

To Convert	Multiply By
POWER	
Foot Pounds Per Minute to Horsepower	.0000303
Foot Pounds Per Minute to Watts	.0226
Foot Pounds Per Second to Horsepower	.001818
Foot Pounds Per Second to Watts	1.356
Horsepower to Foot Pounds Per Minute	33,000.
Horsepower to Foot Pounds Per Second	550.
Horsepower to Watts	746.
Kilogram Meters Per Second to Watts	9.807
Watts to Foot Pounds Per Minute	44.25
Watts to Foot Pounds Per Second	.7375
Watts to Horsepower	.001341
Watts to Kilogram-meters Per Second	.1020
ENERGY	
British Thermal Units to Foot Pounds	778.
British Thermal Units to Joules	1,055.
British Thermal Units to Watthours	.293
Foot Pounds to British Thermal Units	.001285
Foot Pounds to Joules	1.356
Foot Pounds to Kilogram-meters	.1383
Gram Calories to Joules	4.186
Joules to British Thermal Units	.000947
Joules to Foot Pounds	.7375
Joules to Gram Calories	.2388
Joules to Kilogram-meters	.10198
Kilogram-meters to Joules	9.8117
Kilogram-meters to Foot Pounds	7.233
Watthours to British Thermal Units	3.4126
MISCELLANEOUS	
Kilograms to Pounds	2.205
Kilograms Per Kilometer to Pounds Per 1000 Feet	.6719
OHMS Per Kilometer to OHMS Per 1000 Feet	.3048
OHMS Per 1000 Feet to OHMS Per Kilometer	3.2808
OHMS Per 1000 Yards to OHMS Per Kilometer	1.0936
Pounds to Kilograms	.4536
Pounds Per 1000 Feet to Kilograms Per Kilometer	1.488
Pounds Per 1000 Yards to Kilograms Per Kilometer	.4960
Pounds Per 1000 Yards to Pounds Per Kilometer	1.0936

THERMOMETRIC CONVERSION SCALES

Degrees Centigrade	Degrees Fahrenheit	Degrees Centigrade	Degrees Fahrenheit	Degrees Centigrade	Degrees Fahrenheit
-40	-40	32	89.6	67	152.6
-30	-22	33	91.4	68	154.4
-20	- 4	34	93.2	69	156.2
0	32.0	35	95.0	70	158.0
1	33.8	36	96.8	71	159.8
2	35.6	37	98.6	72	161.6
3	37.4	38	100.4	73	163.4
4	39.2	39	102.2	74	165.2
5	41.0	40	104.0	75	167.0
6	42.8	41	105.8	76	168.8
7	44.6	42	107.6	77	170.6
8	46.4	43	109.4	78	172.4
9	48.2	44	111.2	79	174.2
10	50.0	45	113.0	80	176.0
11	51.8	46	114.8	81	177.8
12	53.6	47	116.6	82	179.6
13	55.4	48	118.4	83	181.4
14	57.2	49	120.2	84	183.2
15	59.0	50	122.0	85	185.0
16	60.8	51	123.8	86	186.8
17	62.6	52	125.6	87	188.6
18	64.4	53	127.4	88	190.4
19	66.2	54	129.2	89	192.2
20	68.0	55	131.0	90	194.0
21	69.8	56	132.8	91	195.8
22	71.6	57	134.6	92	197.6
23	73.4	58	136.4	93	199.4
24	75.2	59	138.2	94	201.2
25	77.0	60	140.0	95	203.0
26	78.8	61	141.8	96	204.8
27	80.6	62	143.6	97	206.6
28	82.4	63	145.4	98	208.4
29	84.2	64	147.2	99	210.2
30	86.0	65	149.0	100	212.0
31	87.8	66	150.8		

CENTIGRADE TABLE OF RELATIVE HUMIDITY *

Temp of Dry Bulb C°	Difference Between Readings of Wet and Dry Bulbs																																						
	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32	34	36	38	40						
4	93	85	77	70	65	56	48	41	34	28	15																												
8	94	87	81	74	68	62	56	50	45	39	28	17																											
12	94	89	84	78	73	68	63	58	53	48	38	30	21	12	4																								
16	95	90	85	81	76	71	67	62	58	54	45	37	29	21	14	7																							
20	96	91	87	82	78	74	70	66	62	58	51	44	36	30	23	17	11																						
22	96	92	87	83	79	75	72	68	64	60	53	46	40	34	27	21	16	11																					
24	96	92	88	85	81	77	74	70	66	63	56	49	43	37	31	26	21	14	10																				
26	96	92	89	85	81	77	74	71	67	64	57	51	45	39	34	28	23	18	13																				
28	96	92	89	85	82	78	75	72	68	65	59	53	47	42	37	31	26	21	17	13																			
30	96	93	89	86	82	79	76	73	70	67	61	55	50	44	39	35	30	24	20	16	12																		
32	96	93	90	86	83	80	77	74	71	68	62	56	51	46	41	36	32	27	23	19	15																		
34	97	93	90	87	84	81	77	74	71	68	63	58	53	48	43	38	34	30	26	22	18	10																	
36	97	93	90	87	84	81	78	75	72	69	64	59	54	50	45	41	36	32	28	24	21	13																	
38	97	94	90	87	84	81	79	76	73	70	65	60	56	51	46	42	38	34	30	26	23	16	10																
40	97	94	91	88	85	82	79	76	74	71	66	61	57	52	48	44	40	36	32	29	25	19	13																
44	97	94	91	88	86	83	80	77	75	73	68	63	59	54	50	47	43	39	36	32	29	23	17	12															
48	97	94	92	89	86	84	81	78	76	74	69	65	61	56	53	49	45	42	39	35	33	27	21	16	12														
52	97	94	92	89	87	84	82	79	77	75	70	66	62	58	55	51	48	44	41	38	35	30	25	20	16	11													
56	97	95	92	90	87	85	83	80	78	76	72	68	64	60	57	53	50	46	43	40	38	32	27	23	19	15	11												
60	98	95	93	90	88	86	83	81	79	77	73	69	65	62	58	55	52	48	45	43	40	35	30	26	21	18	14	11											
70	98	96	93	91	89	87	85	83	81	79	75	71	68	65	61	58	55	52	50	47	44	40	35	31	27	23	20	17	14	11									
80	98	96	94	92	90	88	86	84	83	81	77	74	71	67	64	61	58	56	53	50	48	43	39	35	31	28	24	22	19	16	14	11							
90	98	97	95	93	91	89	87	85	84	82	79	76	73	69	67	64	61	58	56	53	51	47	42	39	35	32	28	26	23	20	18	16	14						
100	99	97	95	93	92	90	88	86	85	83	80	77	75	71	68	66	63	60	58	56	54	49	45	42	38	35	32	29	26	24	22	19	17						

* Use of this table is explained at bottom of page 18-95.

FAHRENHEIT PSYCHROMETRIC HUMIDITY TABLE
(Relative Humidities in Percent)

Temp of Dry Bulb F°	Wet Bulb Depression																								
	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°
60	100	94	89	83	78	73	68	63	58	53	48	43	39	34	30	26	21	17	13	9	5	1			
61	100	94	89	84	78	73	68	63	58	54	49	44	40	35	31	27	22	18	14	10	7	3			
62	100	94	89	84	79	74	69	64	59	54	50	45	41	36	32	28	24	20	16	12	8	4	1		
63	100	95	89	84	79	74	69	64	60	55	50	46	42	37	33	29	25	21	17	13	10	6	2		
64	100	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30	26	22	18	15	11	7	4		
65	100	95	90	85	80	75	70	66	61	56	52	48	44	39	35	31	27	24	20	16	12	9	5	2	
66	100	95	90	85	80	75	71	66	61	57	53	48	44	40	36	32	29	25	21	17	14	10	7	3	
67	100	95	90	85	80	75	71	66	62	58	53	49	45	41	37	33	30	26	22	19	15	12	8	5	2
68	100	95	90	85	80	75	71	67	62	58	54	50	46	42	38	34	31	27	23	20	16	13	10	6	3
69	100	95	90	85	81	76	72	67	63	59	55	51	47	43	39	35	32	28	24	21	18	14	11	8	5
70	100	95	90	86	81	77	72	68	64	59	55	51	48	44	40	36	33	29	25	22	19	15	12	9	6
71	100	95	90	86	81	77	72	68	64	60	56	52	48	45	41	37	33	30	27	23	20	17	13	10	7
72	100	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38	34	31	28	24	21	18	15	12	9
73	100	95	91	86	82	78	73	69	65	61	57	53	50	46	42	39	35	32	29	25	22	19	16	13	10
74	100	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39	36	33	29	26	23	20	17	14	11
75	100	96	91	86	82	78	74	70	66	62	58	54	51	47	44	40	37	34	30	27	24	21	18	15	12
76	100	96	91	87	82	78	74	70	66	62	59	55	51	48	44	41	38	34	31	28	25	22	19	16	13
77	100	96	91	87	83	79	74	71	67	63	59	56	52	48	45	42	39	35	32	29	26	23	20	17	14
78	100	96	91	87	83	79	75	71	67	63	60	56	53	49	46	43	39	36	33	30	27	24	21	18	16
79	100	96	91	87	83	79	75	71	68	64	60	57	53	50	46	43	40	37	34	31	28	25	22	19	17
80	100	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44	41	38	35	32	29	26	23	20	18
81	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	41	39	36	33	30	27	24	21	19
82	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	42	39	36	33	30	28	25	22	20
83	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	42	40	36	34	31	28	25	23	20
84	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	35	32	29	26	24	21
85	100	96	92	88	84	80	77	73	69	66	63	60	57	53	50	47	44	41	38	36	33	30	27	25	22
86	100	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47	44	42	39	36	33	31	28	26	23
87	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	34	32	29	27	24
88	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	32	30	27	25
89	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	33	30	28	25
90	100	96	92	89	85	81	78	74	71	68	65	61	58	55	52	49	47	44	41	39	36	34	31	29	26
91	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	32	30	27
92	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	32	30	28
93	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29
94	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29
95	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	31	29
96	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	32	30
97	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	33	31
98	100	96	93	89	86	83	79	76	73	70	67	64	61	58	56	53	50	48	45	43	40	38	36	34	32
99	100	96	93	89	86	83	80	77	73	70	68	65	62	59	56	54	51	49	46	44	41	39	37	35	33

Aboard Naval vessels humidity readings should be taken once each watch. To use the Centigrade table on page 18-94 and the Fahrenheit table above, take the dry bulb temperature and subtract the wet bulb temperature to obtain the difference. If dry bulb is 70° (see left vertical column) and wet bulb is 65°, the difference is 5° (see top horizontal column). Where these two columns intersect is the percent of relative humidity (79°C - 77°F).

TABLE OF DIELECTRIC CONSTANTS

Material	Dielectric Constant (K)	Material	Dielectric Constant (K)
Air (Normal Pressure)	1.00	Isolutite	6.1
Asphalt	2.7 - 3.1	Marble	8.3 - 11.5
Bakelite (Moulded)	4.5 - 7.5	Mica	2.5 - 8.0
Bakelite (Paper base)	4.5 - 6.8	Mica (Clear India)	6.4
Beeswax	2.9 - 3.2	Paraffin Wax (Solid)	2.0 - 2.6
Cambric (Varnished)	3.3 - 5.5	Paraffin Waxed Paper	3.5
Castor Oil	4.3 - 4.7	Paper	2.0 - 2.6
Celluloid	4.2 - 16	Polyethylene	2.3
Celluloid Photo Film	6.7	Porcelain	5.7 - 6.8
Ebonite	1.9 - 3.5	Pyrex Glass	4.5 - 4.9
Fibre (Red)	4.8	Pyrotenax	3.5
Glass	5.1 - 9.9	Quartz	4.5 - 5.1
Glass Photo Plate	7.5	Rubber	2.0 - 3.5
Glass (Window)	8.0	Shellac	2.9 - 3.7
Glass (Flint)	7.0 - 9.9	Slate	6.6 - 7.4
Glass (Plate-glass)	6.8 - 7.6	Teflon (Tetraflourethylene)	2.0
Glass (Crown)	6.2 - 7.0	Wood (Dry)	2.0 - 7.7
Gutta Percha	2.5 - 7.0		

NOTE: Values given cover a wide range of quantities of each material, but must only be taken as typical. There is a correction for temperature and frequency with each material.

CURRENT LEAKAGE OF ELECTROLYTIC CAPACITORS

The DC leakage of an electrolytic capacitor when measured with an analyzer such as the Navy Type - 60007 Capacity Analyzer or equivalent should not exceed the current value calculated from the information listed in the following table.

Rated Working Voltage	Allowable Leakage Per Microfarad in Milliamperes
15 to 100 volts, inclusive	0.1
101 to 299 volts, inclusive	0.2
300 volts or more	0.5

For example, a 16-mf capacitor rated at 450 volts (working) is to be tested. From the table, the allowable leakage for capacitors rated 300-volts or more is 0.5 ma per mf. The total allowable leakage is therefore 8 ma (16 x 0.5 ma).

TIME CONVERSION TABLE

Universal Time or Greenwich Civil Time	EDT	EST or CDT	CST or MDT	MST or PDT	PST
0	8:00 pm	7:00 pm	6:00 pm	5:00 pm	4:00 pm
2	10:00 pm	9:00 pm	8:00 pm	7:00 pm	6:00 pm
3	11:00 pm	10:00 pm	9:00 pm	8:00 pm	7:00 pm
4	Midnight	11:00 pm	10:00 pm	9:00 pm	8:00 pm
5	1:00 am	Midnight	11:00 pm	10:00 pm	9:00 pm
6	2:00 am	1:00 am	Midnight	11:00 pm	10:00 pm
8	4:00 am	3:00 am	2:00 am	1:00 am	Midnight
10	6:00 am	5:00 am	4:00 am	3:00 am	2:00 am
12	8:00 am	7:00 am	6:00 am	5:00 am	4:00 am
14	10:00 am	9:00 am	8:00 am	7:00 am	6:00 am
15	11:00 am	10:00 am	9:00 am	8:00 am	7:00 am
16	Noon	11:00 am	10:00 am	9:00 am	8:00 am
17	1:00 pm	Noon	11:00 am	10:00 am	9:00 am
18	2:00 pm	1:00 pm	Noon	11:00 am	10:00 am
20	4:00 pm	3:00 pm	2:00 pm	1:00 pm	Noon
22	6:00 pm	5:00 pm	4:00 pm	3:00 pm	2:00 pm

EDT - Eastern Daylight Time

EST - Eastern Standard Time

CDT - Central Daylight Time

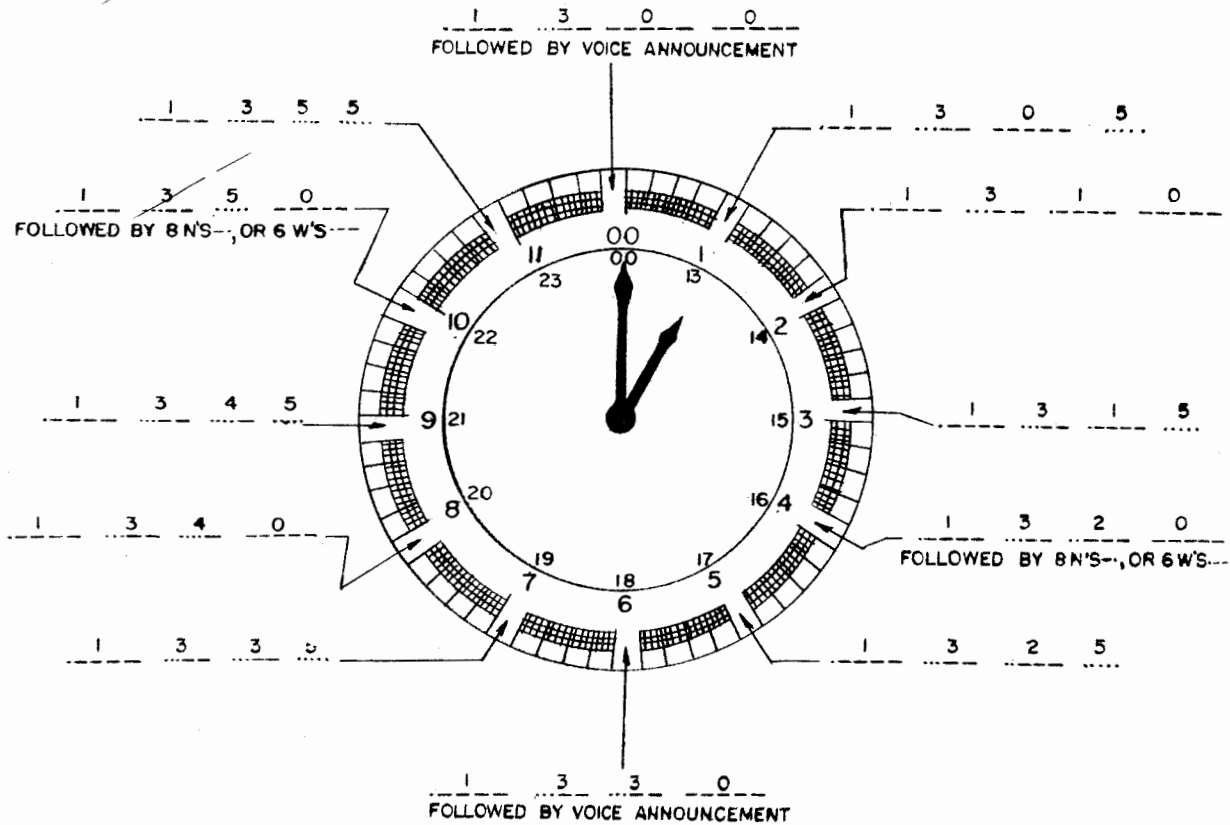
CST - Central Standard Time

MDT - Mountain Daylight Time

MST - Mountain Standard Time

PDT - Pacific Daylight Time

PST - Pacific Standard Time



NUMERALS IN INTERNATIONAL MORSE CODE

0----- DA DA DA DA DA	2----- DIT DIT DA DA DA	4----- DIT DIT DIT DIT DA	6----- DA DIT DIT DIT DIT	8----- DA DA DA DIT DIT
1----- DIT DA DA DA DA	3----- DIT DIT DIT DA DA	5----- DIT DIT DIT DIT DIT	7----- DA DA DIT DIT DIT	9----- DA DA DA DA DIT

MEGACYCLES	BROADCAST CONTINUOUSLY, NIGHT AND DAY	POWER, KW	MODULATION, C/S
2.5	" " " "	0.7	1 AND 440
5	" " " "	8.0	1 AND 440
10	" " " "	9.0	1, 440 AND 4000
15	" " " "	9.0	1, 440 AND 4000
20	" " " "	8.5*	1, 440 AND 4000
25	" " " "	0.1	1, 440 AND 4000
30	" " " "	0.1	1
35	" " " "	0.1	1

* 0.1 KW, FOR FIRST 4 WORK DAYS AFTER 1ST SUNDAY OF EACH MONTH

Figure 18-9. Station WWV Time Announcements

WEIGHTS AND MEASURES TABLEAVOIRDUPOIS WEIGHT

16 drams	=	437.5 grains
	=	1 ounce
16 ounces	=	7,000 grains
	=	1 pound
100 pounds	=	1 cental (hundredweight)
2,000 pounds	=	1 short ton
2,240 pounds	=	1 long ton

TROY WEIGHT

24 grains	=	1 pennyweight
20 pennyweights	=	1 ounce
12 ounces	=	1 pound
1 pound	=	12 ounces
	=	240 pennyweights
	=	5,760 grains

DRY MEASURE

2 pints	=	1 quart
8 quarts	=	1 peck
4 pecks	=	1 bushel
1 bushel	=	4 pecks
	=	32 quarts
	=	64 pints
U. S. bushel (2,150.42 cubic inches)	=	approximately 1 $\frac{1}{4}$ cubic feet

British bushel contains 2,219.34 cubic inches.

WEIGHTS AND MEASURES TABLE (Cont'd)

LONG MEASURE

12 inches	=	1 foot
3 feet	=	1 yard
5 ½ yards	=	1 rod
40 rods	=	1 furlong
8 furlongs	=	1 mile
3 nautical miles	=	1 league (U. S.)
1 fathom	=	2 yards
	=	6 feet
1 rod	=	5.5 yards
	=	16.5 feet
1 hand	=	4 inches
1 span	=	9 inches

SQUARE MEASURE

144 square inches	=	1 square foot
9 square feet	=	1 square yard
30 ¼ square yards	=	1 square rod
160 square rods	=	1 acre
640 acres	=	1 square mile

An acre is equal to a square, the side of which is 208.7 feet.

LIQUID MEASURE

4 gills	=	1 pint
2 pints	=	1 quart
4 quarts	=	1 gallon
31 ½ gallons	=	1 barrel
2 barrels or 63 gallons	=	1 hogshead
1 hogshead	=	2 barrels
	=	63 gallons
	=	252 quarts
	=	504 pints
	=	2,016 gills

WEIGHTS AND MEASURES TABLE (Cont'd)

NAUTICAL MEASURE

1 league	=	3 nautical miles
1 nautical mile	=	6080.20 feet
	=	1.1516 statute miles
One degree at the equator	=	60 nautical miles
	=	69.096 statute miles
360 degrees at the equator	=	21,600 nautical miles
	=	24,874.5 statute miles

Knot is a measure of speed.

Nautical mile is a measure of length.

SURVEYOR'S MEASURE

1 link	=	7.92 inches
1 chain	=	4 rods
	=	22 yards
	=	66 feet
	=	100 links
1 furlong	=	10 chains
	=	220 yards
1 mile	=	8 furlongs
	=	80 chains

CUBIC MEASURE

1,728 cubic inches	=	1 cubic foot
27 cubic feet	=	1 cubic yard
128 cubic feet	=	1 cord
24 $\frac{3}{4}$ cubic feet	=	1 perch of masonry
1 cubic yard	=	27 cubic feet
	=	46,656 cubic inches

WEIGHTS AND MEASURES TABLE (Cont'd)MEASURE OF ANGLES OR ARCS

60 seconds	=	1 minute
60 minutes	=	1 degree
90 degrees	=	1 right angle or quadrant
360 degrees	=	1 circle
$\frac{360 \text{ degrees}}{2\pi}$	=	1 radian = 57.3 degrees
1 circle	=	360 degrees
	=	21,600 minutes
	=	1,296,000 seconds
	=	2π radians

METRIC SYSTEMMeasures of Length

1 Millimeter	=	0.001 Meter	=	0.0394 Inch
1 Centimeter	=	0.01 Meter	=	0.3937 Inch
1 Decimeter	=	0.1 Meter	=	3.937 Inch
1 Meter	=	1 Meter	=	39.37 Inch
1 Dekameter	=	10 Meters	=	393.7 Inch
1 Hectometer	=	100 Meters	=	328 feet, 1 Inch
1 Kilometer	=	1000 Meters	=	3280 feet, 10 Inches
1 Myriameter	=	10000 Meters	=	6.2137 Miles

It will be noticed that 10 millimeters equal 1 centimeter, 10 centimeters equal 1 decimeter, etc.

Measures of Surface

1 Hectare	=	10000 Square Meters	=	2.471 Acres
1 Are	=	100 Square Meters	=	119.6 Square Yards
1 Centiare	=	1 Square Meter	=	1550 Square Inches

WEIGHTS AND MEASURES TABLE (Cont'd)

METRIC SYSTEM (Cont'd)Measures of Volumes

1 Milliliter	=	0.001 Liter	=	0.06102 Cubic Inch
1 Centiliter	=	0.01 Liter	=	0.6102 Cubic Inch
1 Deciliter	=	0.1 Liter	=	6.102 Cubic Inch
1 Liter	=	1 Liter	=	1.057 Quart
1 Dekaliter	=	10 Liters	=	10.57 Quarts
1 Hectoliter	=	100 Liters	=	2.838 Bushels
1 Kiloliter	=	1000 Liters	=	1.308 Cubic Yards

Weights

1 Milligram	=	.001 Grams	=	0.01543 Grains
1 Centigram	=	0.01 Grams	=	0.1543 Grains
1 Decigram	=	0.1 Grams	=	1.543 Grains
1 Gram	=	1 Gram	=	15.43 Grains
1 Dekagram	=	10 Grams	=	0.3527 Ounces
1 Hectogram	=	100 Grams	=	3.527 Ounces
1 Kilogram	=	1000 Grams	=	2.205 Pounds
1 Myriagram	=	10000 Grams	=	22.05 Pounds

TABLE OF LUMBER WEIGHTS
WOOD

Species of Wood	Weight Per Cubic Foot (In Pounds)		Weight Per 1000 Board Foot (In Pounds)
	Green	Air Dry (12% Moisture)	Nominal Size (12% Moisture)
Ash, White	48	41	3420
Balsa	---	10.5	830
Basswood	42	26	2170
Beech	54	45	3750
Birch	57	44	3670
Cedar, Alaska	36	31	2580
Cedar, Port Orford	56	29	2420
Cedar, Southern White	26	23	1920
Cedar, Western Red	27	23	1920
Cherry, Black	45	35	2930
Cottonwood, Eastern	49	28	2330
Cottonwood, Northern Black	46	24	2000
Cypress, Red	---	29	2420
Cypress, Southern	51	32	2670
Douglas Fir, Coast	38	34	2830
Douglas Fir, Inland Empire	36	31	2580
Douglas Fir, Rocky Mountain	35	30	2500
Gum, Black	45	35	2920
Gum, Red	50	34	2830
Gum, Tupelo	56	35	2920
Hackmatack	---	37	3080
Hemlock, Eastern	50	28	2330
Hemlock, Western	41	29	2420
Hickory, Pecan	62	45	3750
Hickory, True	63	51	4250
Larch, Western	48	36	3000
Lignumvitae	---	80	6500
Magnolia, Cucumber	49	33	2750
Magnolia, Evergreen	59	35	2920
Mahogany, African	---	32	2670
Mahogany, Pan American	---	34	2830
Maple, Hard	56	44	3670
Oak, Red	64	44	3670
Oak, White	63	47	3920
Pine, Northern White	36	25	2080
Pine, Norway	42	34	2830
Pine, Ponderosa	45	28	2330
Pine, Southern Yellow, Loblolly	53	36	3000

TABLE OF LUMBER WEIGHTS (Cont'd)

WOOD

Species of Wood	Weight Per Cubic Foot (In Pounds)		Weight Per 1000 Board Foot (In Pounds)
	Green	Air Dry (12% Moisture)	Nominal Size (12% Moisture)
Pine, Southern Yellow, Long Leaf	55	41	3420
Pine, Southern Yellow, Short Leaf	52	36	3000
Pine, Sugar	52	25	2080
Pine, Western Idaho	35	27	2250
Poplar, Yellow	38	28	2330
Redwood	50	28	2330
Spruce, Eastern	34	28	2330
Spruce, Engelmann	39	23	1920
Spruce, Sitka	33	28	2330
Tamarack (Larch)	47	37	3080
Teak	---	43	3580
Walnut, Black	58	38	2170

PLYWOOD

Thickness	1/8 Inch	1/2 Inch	1 Inch
Beech	400	1600	3200
Birch	400	1600	3200
Fir	380	1525	3000
Gum	400	1600	3200
Mahogany	400	1600	3200
Maple	400	1600	3200
Oak	400	1600	3200
Pecan	400	1600	3200

NOTE: These are average commercial weights of 1000 square feet.

As compared with solid wood, the chief advantages of plywood are its close approach to equalization of strength properties along the length and width of the panel, greater resistance to checking and splitting, and less changes in dimensions with changes in moisture content.

EXTERIOR PLYWOOD is bonded with a waterproof, hot-pressed synthetic resin between the plies that renders it suitable for permanent exposure to weather or water.

INTERIOR PLYWOOD is a standard moisture-resistant plywood which will delaminate when soaked in water. It should not be used in any location which is exposed to continual high humidity or wetting.

FUNGI-RESISTANT PLYWOOD is surface-treated with a wood preservative to retard mold and decay.

FIRE-RESISTANT PLYWOOD is chemically impregnated to lessen the rate of flame penetration and destruction when in direct contact with flames.

CG TABLE

The following CG Table is included for reference only. Due to the rapidity of replacing or superseding existing CG items, it is impossible to keep such a table up-to-date. For latest revisions, refer to the Catalog of Navy Type Electronic Material, NavShips 900,109(A).

CG numbers are Navy type designations assigned by the Bureau of Ships to RF cables, waveguides, etc., with terminals. The following table contains, in addition to the CG number, the standard Navy stock number (if available), a description of the item, and its application. Improved versions of the original item will include the suffix A immediately following the number.

CG TABLE

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-1/APS-3		RF LINE: uses RG-52/U; connects AS-12/APS-3 to RT-10/APS-3 when installed in TBY-1 Aircraft.
CG-2/APS-3		RF LINE: uses RG-52/U; an "S" shape assem; AS-12/APS-3 to RT-10/APS-3 when installed in PV-2 Aircraft.
CG-3/APS-3		RF LINE: uses RG-52/U; an "S" shape assem; connects AS-12/APS-3 to RT-10/APS-3 when installed in TBF or TBM Aircraft.
CG-36/APS-3		RF LINE: uses RG-52/U; 4.875" lg o/a; connects AS-12/APS-3 when installed in PBN, PBY-3, PBJ, PBV and A-30-C Aircraft.
CG-40/TPS-1		CORD: uses RG-64/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; ea end terminated w/ spcl cw male contact connector which is integral p/o cable; color coded silver.
CG-55/U ()		CORD: uses RG-8/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; ea end terminated w/ UG-21/U.
CG-55/U (1', 0")	16-C-11582-4621	CORD: 1 ft o/a.
CG-55/U (1', 4")	16-C-11582-5821	CORD: 16" o/a.
CG-55/U (3', 1 1/2")	16-C-11583-3271	CORD: 37 1/2" lg o/a; 33 3/4" lg excluding terminations.
CG-55/U (4', 10 1/2")	16-C-11583-9571	CORD: 58 1/2" lg o/a; 54 1/2" lg excluding terminations.
CG-55/U (5', 1 3/4")	16-C-11584-1546	CORD: 61 3/4" lg o/a; 58" lg excluding terminations.
CG-55/U (20', 0")	16-C-11588-6451	CORD: w/ lg to extreme end of terminations to be 20 ft, 0 in.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-55A/U (100', 0")	16-C-11597-1051	CORD: c/o a lg of RG-8/U; lg to extreme end of terminations to be specified in nomenclature; terminated at ea end in UG-21A/U; similar to CG-55/U, but uses UG-21A/U instead of UG-21/U; general use.
CG-55B/U (4', 3 1/2")	16-C-11583-7486	CORD: c/o a lg of RG-8/U; terminated at ea end in UG-21B/U; similar to CG-55/U and CG-55A/U but uses UG-21/U or UG-21A/U; general use.
CG-55C/U		RF CABLE: RG-8A/U coaxial, 52 ohms, polyethylene; 0.285" x 0.010" OD, u/w UG-21B/U at each end.
CG-55D/U		CORD: Coaxial RG-8A/U u/w UG-21C/U at each end.
CG-56/U (0', 4 5/8") (0', 8 3/16")	16-C-11582-3507	CORD: uses RG-8/U; one end terminated w/ UG-23/U other end terminated w/ Sig C PL - 259.
CG-56A/U		CORD: coaxial; RG-8A/U; u/w UG-23C/U and PL-259/A at ends.
CG-72/U	16-C-11586-2001	COAXIAL CABLE: uses RG-8/U; approx 117" lg excluding terminations; 10' lg o/a; each end terminated w/ NT-49195 Plug (Sig C Plug PL-259/A); to be used w/ AN Oscilloscope TS-34/AP as patch cord for sig input jack and ext synchronizing jack to equipment being tested which have jacks that will accommodate NT-49195.
CG-87/U	16-L-80353	SLOTTED SECTION: brass, silver pl.
CG-88/U		TERMINATION SECTION: used to terminate waveguide, prevent radiation and absorb RF energy; one end terminated w/ fl coupling, other end closed w/ metal cap; c/o approx 4 7/8" lg sect of RG-52/U w/terminations and 4" lg built in resistor strip.
CG-89/U		CORD: uses RG-11/U; each end terminated w/ NT-49195 Plug (Sig C Plug PL-259A).

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-90/U	16-W-21991-1202	ADAPTER SECTION: used for connecting w/UG-39/U; c/o a sect of RG-52/U each end terminated w/UG-40/U; wt 11 oz. 3 5/16" lg x 1 3/4" diam o/a.
CG-91/U () (6', 0")	16-C-11864-8216	CORD: uses RG-39/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; each end terminated w/NT-49195 Plug.
CG-91A/U		CORD: coaxial, RG-6A/U, 76 ohms, 0.185 OD, polyethylene.
CG-92/U (25', 0") (25', 3 1/2")	16-C-11608-5920	CORD: 25 ft lg o/a; approx 296 1/4" lg excluding terminations.
CG-92A/U (6', 15/16") (100', 0")	16-C-11604-6605 16-C-11613-1029	CORD: c/o a lg of RG-9/U; in feet and inches from extreme ends of terminations to be specified in parenthesis following nomenclature; terminates at each end in UG-21B/U; similar to CG-92/U except uses UG-21B/U instead of UG-21/U.
CG-92B/U (8', 0") (10', 0")	16-C-11616-1621 16-C-11616-5590	CORD: c/o lg of RG-92A/U; lg to extreme end of terminations to be specified in nomenclature; terminated at each end in UG-21B/U; double shielded, low loss.
CG-92C/U		CORD: RG-9B/U used with UG-21B/U at each end.
CG-97/AP		ABSORBER UNIT: RF power absorption unit for "S" band use; metal w/black paint finish; one end to CU-40/APA-22 w/ fl connection held by mtg strap at other end; line loaded w/sand and aquadag w/suitable cooling fins.
CG-99/AP () (6', 0") (10', 0") (15', 0")		CORD: uses RG-8/U; length in feet and inches from extreme end of terminations to be inserted in parenthesis following nomenclature; ea end terminated w/ UG-12/U.
CG-106/U		CORD: CANCELLED. Same as CG-92/U (25', 0").

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-107/U (3', 6") (6', 0") (15', 0')	16-C-11583-5261 16-C-11584-5221 16-C-11588-1221	CORD: uses RG-8/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; ea end terminated w/ NT-49195.
CG-111/TPS-1B()		COMBINATION CABLE: 23 single tinned copper wire conductors, one #14 AWG stranded wire, seven #16 AWG stranded wire, three #18 AWG stranded wire, twelve #22 AWG stranded wire, and four coax cables RG-55/U; cotton or rayon yarn braid, vinylite outer jacket, 1.025" OD; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; ea end terminated w/ CW #D-165644 connector.
CG-111/TPS-1B (6', 0") (50', 0")	17-C-48897-6349 17-C-48897-9085	COMBINATION CABLE: connects AN Rectifier-Junction Box PP-91/TPS-1B and AN Indicator ID-84/TPS-1B when indicator is used in remote location.
CG-116/APS-15		WAVE SELECTOR: permits definite amount of RF energy to leak into the output probe section which is p/o small waveguide cavity used where small amount of RF energy is required such as test purposes.
CG-119/U (3', 0")		CORD: CANCELLED. Same as CG-107/U (3', 6")
CG-124/APS 15A		WAVE SELECTOR: similar to CG-116/APS-15 in junction except designed for type B Aircraft instead of type C, D and E.
CG-141/U	16-C-11765-8221	TRANSMISSION LINE: uses RG-25/U; approx 67 1/2" lg excluding terminations, 72" lg o/a; ea end terminated w/ UG-34/U, HV pulse cable for testing AN/APS-3 and AN/APS-6A.
CG-150/U	16-C-12194-6675	CORD: uses RG-55/U; approx 72" lg excluding terminations; one end terminated w/ Zierick #159 term, other end terminated w/ cw #B-13790-5 nickel pl brass plug nut and coin silver sleeve CW #B-11206-2 attached to main lead, also has 3 1/2" lg lead w/ Zierick #159 term to form Y connection.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-157/APQ-5		CORD: uses CPH #21B-290-7/26-XB coax cable which is identical to RG-11/U except that cotton braid replaces the vinylite covering; 20 ft lg excluding terminations; terminated at ea end w/ NT-49190 connector.
CG-162/U()		TRANSMISSION LINE: superseded; replace w/CG-370/U() or CG-420/U(). Mates with UG-116, 117/U. Equivalent to RG-53, 66/U. (0.500 x 0.250)
CG-163/U()		TRANSMISSION LINE: superseded; replace w/CG-370/U() or CG-420/U(). Mates with UG-116, 117/U. Equivalent to RG-53, 66/U. (0.500 x 0.250)
CG-164/U() 6" 12" 18" 24" 30" 36" 48" (3', 6") 60" (6', 0")	16-W-21991-1041 16-W-21991-1057 16-W-21991-1269 16-W-21991-1049 16-W-21991-1270 16-W-21991-1066 16-W-21991-1271 16-W-21991-1267 16-W-21991-1268 16-W-21991-1266	TRANSMISSION LINE: c/o sect of flex rectangular waveguide w/ plain fl coupling attached to ea end; brass waveguide w/ synthetic rubber jacket; mts by plain fl at ea end which mates w/UG-40A/U rubber jacket permits pressurization. Equivalent to RG-52, 67/U. (1.000 x 0.500)
CG-165/U()		TRANSMISSION LINE: superseded; replace w/ CG-684/U.
CG-165A/U() 6" 12" 18" 24" 30" 36" 48" 60" 72" (3', 6")	16-W-21991-1047 16-W-21991-1040 16-W-21991-1038 16-W-21991-1031 16-W-21991-1039 16-W-21991-1040 16-W-21991-1262 16-W-21991-1263 16-W-21991-1264 16-W-21991-1265	TRANSMISSION LINE: c/o sect of flex rectangular waveguide w/UG-51/U attached to ea end; brass waveguide w/synthetic rubber jacket; power rating 440 kw; to be supplied in lengths of 6" or longer in increments of 6"; length in feet and inches from extreme ends of terminations to be inserted parenthesis following nomenclature; mts by fl at ea end which mates w/UG-52A/U, transmits power under conditions of vibration and absorbs shock; synthetic jacket has better mechanical characteristics than that of CG-165/U. Equivalent to waveguides RG-51, 68/U. (1.250 x 0.625)
CG-166/U() 6" 12" 18" 24"	16-W-21991-1046 16-W-21991-1033 16-W-21991-1261 16-W-21991-1032	TRANSMISSION LINE: used to connect sect of RG-51/U; c/o sect of flex rectangular waveguide w/ plain fl coupling attached to ea end; silver coated non-ferrous alloy wave-

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-166/U() 30" 36" 42" 48" 60" 72"	16-W-21991-1280 16-W-21991-1279 16-W-21991-1278 16-W-21991-1277 16-W-21991-1276 16-W-21991-1043	guide w/synthetic rubber jacket, 0.497" x 1.122" inside dimen, nom outside dimen 3/4" x 1 3/8"; power rating 0.44 megawatts; to be supplied in lengths of 6" or longer in increments of 6"; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; mts by plain fl at each end which mates w/ UG-52A/U. Equivalent to RG-51, 68/U. (1.250 x 0.625)
CG-167/U()		TRANSMISSION LINE: superseded; replace w/ CG-167A/U() or CG-168/U().
CG-167A/U()		TRANSMISSION LINE: c/o sect of flex rectangular waveguide w/AN Cover Plate UG-149/U attached to ea end; brass waveguide w/synthetic rubber jacket; mts by fl at ea end which mates w/ AN Choke UG-148B/U. Equiv. to RG-49, 95/U (2.00 x 1.00).
CG-168/U()		TRANSMISSION LINE: flex rectangular wnd, silver coated non-ferrous alloy rubber jacket cover, ends mate w/ AN Choke UG-148B/U; can be pressurized, similar to CG-167/U() but w/ rubber jacket and turns not soldered; similar to CG-167A/U() but does not have solder turns. Equivalent to RG-49, 95/U (2.000 x 1.000)
CG-169/U()		TRANSMISSION LINE: superseded; replace w/CG-169A/U() or CG-170/U().
CG-169A/U()		TRANSMISSION LINE: flex wnd rectangular spiral soldered turns, silver coated non-ferrous alloy RC, both ends mate w/ UG-66/U; similar to CG-170/U() but has soldered turns. Equivalent to RG-48, 75/U (3.000 x 1.5000)
CG-170/U()		TRANSMISSION LINE: flex wnd rectangular, silver coated non-ferrous alloy rubber jacketed, both ends mate w/ UG-66/U; synthetic rubber jacket permits pressurization; similar to CG-169/U but rubber jacket and turns not soldered, and to CG-169A/U but does not have soldered turns. Equivalent to RG-48, 75/U (3.000 x 1.500)

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Designation
CG-174/APS-3A		TRANSMISSION LINE: for installation in type "A" Aircraft.
CG-175/APS-3A		TRANSMISSION LINE: for installation in type "E" Aircraft.
CG-176/AP		DIRECTIONAL COUPLER: to provide accurate means of coupling test equip to radar systems to measure power of XA band equip; c/o sect of RG-52/U, 5" lg w/ two UG-40/U and two UG-39/U used in choke joints, a UG-25/U and a pressurized probe.
CG-177/U		CORD: uses RG-59/U; terminated at one end w/ NT-49194 Connector and UG-106/U and terminated at other end w/ CPH type 80-81 Connector.
CG-179/U()		TRANSMISSION LINE: superseded; replace w/ CG-179A/U() or CG-164/U().
CG-179A/U (1', 3") (3', 0")	16-W-21991-1294 16-W-21991-1050	TRANSMISSION LINE: c/o sect of waveguide w/UG-39/U attached to ea end; mts by fl at ea end which mates w/ UG-40A/U; improved version of CG-179/U. Pressurized. Equivalent to RG-52, 67/U (1.000 x 0.500)
CG-181/APM-40		TRANSMISSION LINE: connects Xmtr to ant; c/o sect of flex copper waveguide 18" lg w/ spcl fl on one end and spcl choke on other end; non-standard no replacement (designated as cable #20 of AN/APM-40 when testing AN/APS-6 and AN/APS-6A.
CG-182/APM-40		TRANSMISSION LINE: superseded; replace w/ CG-164/U() or CG-179A/U, requires modification of mating flange.
CG-185/APM-40		TRANSMISSION LINE: uses RG-13/U; 37 ft lg excluding terminations; ea end terminated w/ UG-24/U; connects xmtr Converter to recr amplr; designated as cable #15 of AN/APM-40 when testing AN/APS-6 or AN/APS-6A.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-186/TPS -1B (3', 0") (5', 0") (6', 0") (15', 0")	16-C-11583-4611 16-C-11584-6424 16-C-11588-1621	TRANSMISSION LINE: uses RG-8/U; w/ NT-49195 Plug and NT-49192 coaxial cable fitting.
CG-187/TPS -1B	16-C-11583-3711	TRANSMISSION LINE: uses RG-8/U; one end terminated w/ UG-14/U and CPH #83-1AC cap and chain, other end terminated w/ UG-12/U and CPH #83-1BC cap and chain; connects test pads w/echo box.
CG-188/TPS -1B	16-C-11583-3721	TRANSMISSION LINE: uses RG-8/U approx 38" lg excluding terminations; each end terminated w/ UG-12/U and CPH #83-1BC cap and chain; color coded red.
CG-189/TPS -1B	16-C-11584-2881	TRANSMISSION LINE: uses RG-8/U; one end terminated w/UG-12/U and CPH #83-1BC cap and chain, other end terminated w/ UG-12/U; color coded silver; connects TR box and rec of AN/TPS-1B.
CG-246/U (1', 1")	16-C-11582-4923	CORD:
CG-247/U (0', 8")	16-C-11564-1821	CORD: c/o a lg of RG-6/U; terminated at each end in UG-18/U; general use.
CG-247A/U		CORD: RG-6A/U coaxial, 76 ohms, 0.185 OD, polyethylene u/w UG-18B/U at each end.
CG-250/APS -15A		TRANSMISSION LINE: used for "Aircraft B" installation of AN/APS-15.
CG-251/APS -15A		TRANSMISSION LINE: used for "Aircraft B" installation of AN/APS-15.
CG-256/U	16-C-11555-1631	CORD: uses RG-5/U; approx 3 1/2" lg excluding terminations, approx 6" lg o/a; each end terminated w/ UG-9/U.
CG-257/U	16-C-11604-4041	CORD: uses RG-9/U; approx 5 ft lg excluding terminations; approx 63" lg o/a; ea end terminated w/ UG-12/U.
CG-258/U	16-C-11730-5251	CORD: uses RG-21/U; approx 9 to 11 ft lg; ea end terminated w/ UG-9/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-262/U (6', 0") (6', 2 5/16") (10', 2 5/16")	16-C-12312-2500 16-C-11586-1750	CORD: coax type, no longer procured, use CG-99/AP (6', 0").
CG-263/U () (3', 6") (3', 8")	16-C-11583-7250	CORD: uses RG-8/U; terminated at one end w/ NT-49190 Connector, other end w/two phone tipped 4" lg wires.
CG-264/U (6', 3 1/8")	16-C-11584-5380	CORD: uses RG-8/U; terminated at ea end w/ NT-49195 Connector.
CG-265/U		CORD: CANCELLED. use CG-264/U.
CG-266/U () (1', 6 1/2")	16-T-25301-1211	CORD: uses 1 5/8" diam coax cable; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature.
CG-267/U (1', 7 3/4")	16-T-25301-1200	CORD: uses 1 5/8" diam coax cable; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature.
CG-268/U (0', 6 9/16")	16-A-22081-1003	CORD: uses 1 5/8" diam coax cable; connects wave meter to antenna dipole.
CG-275/U (3', 6") (10', 3") (20', 0")	16-C-11586-1991 16-C-11588-6441	CORD: c/o RG-8/U; connects NT-43069 Transmitter-Receiver to NT-55147 Antenna; general use.
CG-275A/U		CORD: RG-8A/U with plug PL-259 ea end, for general use.
CG-307/UP		TRANSMISSION LINE: c/o sect of RG-48 w/ two degree bends very close together in the E plane.
CG-308/U () (0', 6 15/16") (2', 1 1/2") (2', 7/16")	16-C-11555-1690 16-C-11555-3475	TRANSMISSION LINE: uses RG-5/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; one end terminated w/ UG-9/U, other end terminated w/ UG-10/U.
CG-309/TPS -1B	16-C-11555-3121	TRANSMISSION LINE: uses RG-5/U; approx 21 1/2" lg o/a; ea end terminated w/UG-9/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-310/TPS -1B (0', 6 1/2") (0', 7 1/2") (0', 8 1/2")		TRANSMISSION LINE: uses RG-55/U; length in ft and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; one end terminated w/NT-49194 Jack, UG-106/U and CW #433561 Adapter; other end has no terminations or processing.
CG-311/U() (1', 5/16") (2', 1")	16-C-11555-2121 16-C-11555-3521	TRANSMISSION LINE: uses RG-5/U; lg in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature; each end terminated w/ UG-9/U.
CG-312/ARW -26 (1', 3")		CORD: c/o one #18 stranded tinned copper wire inserted into CPH #9746-4 clear vinylite synthetic tubing.
CG-318/U	17-L-63211-3351	CORD: uses two #18 stranded copper wire cord; used to connect Range Unit to TS-102/AP for calibration purposes.
CG-332/U() (8', 3 1/8")	16-C-11945-2866	CORD: uses RG-58/U; each end terminated w/UG-175/U and NT-49195 Plug.
CG-333/U()		TRANSMISSION LINE: used for transmission of RF power. Mates with UG-53, 54/U. Replace w/ CG-169A/U() or CG-170/U(). Equivalent to RG-48, 75/U.
CG-333A/U		FLEXIBLE WAVEGUIDE: No jacket, equivalent to RG-48, 75/U (3" x 1.5") u/w UG-53, 54A/U.
CG-334/U		TRANSMISSION LINE: mates with UG-51/U. Replace with CG-165A/U() or CG-166/U(). Equivalent to RG-51, 68/U (1.25 x 0.625).
CG-341/APS -3A		TRANSMISSION LINE: c/o sect of RG-52/U w/bellows or flex corrugated transmission line.
CG-350/U()		TRANSMISSION LINE: used to transmit RF power; u/w cw "ticket tubing transmission lines".
CG-358/U (3', 0") (3', 6 1/2")	16-C-11729-5271	CORD: uses RG-21/U; one end terminated w/UG-9/U, other w/UG-11/U; lg in ft and in. from extreme ends of terminations to be inserted in () following nomenclature.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-359/U() (8', 3 1/2") (11', 7 1/2") (11', 8")	16-C-11605-3021 16-C-11606-2021	CORD: uses RG-9/U; each end terminated w/UG-21A/U; length in feet and inches from extreme ends of terminations to be inserted in parenthesis following nomenclature.
CG-370/U() (0', 6")	16-W-21991-1053	TRANSMISSION LINE: used where flex coupling of waveguide assembly is required or for test purposes; c/o sect of flex rectangular waveguide. Equivalent to RG-53, 66/U (0.500 x 0.250). Mates with UG-116, 117/U.
CG-373/U() (2', 11 1/2") (3', ± 3")	16-C-11633-8111	CORD: c/o lg of RG-11/U; terminated at each end in NT-49195.
CG-373A/U		CORD: RG-11A/U coaxial, 75 ohms, polyethylene, 0.285" OD; u/w PL-259-A at each end.
CG-374/U()		TRANSMISSION LINE: replace w/CG-418/U or CG-419/U. Mates with UG-150/U. Equivalent to RG-50, 106/U (1.500 x 0.750)
CG-393/U		CORD: synchronizer cable; uses RG-62/U; used to connect SN-9/APA-5 to system.
CG-394/U()		CORD: synchronizer cable; uses RG-62/U; used to connect SN-9/APA-5 to ID-50/APA-5.
CG-395/U		CORD: synchronizer testing; uses RG-62/U.
CG-401/U()		CORD: uses RG-8/U; terminated one end w/UG-21/U and at other end w/modified "N" plug.
CG-401/U (16', 0")		CORD: used to connect AS-325/AR to TS-277/AP.
CG-407/TRA-7	16-C-11943-3471	CORD: uses RG-8/U; approx 13 1/4" lg o/a.
CG-409/U() (0', 6 1/2") (4', 2") (6', 0") (4', 0") (1', 2") (0', 7")	16-C-11943-2350 16-C-11944-2021 16-C-11944-6426 16-C-11944-1750 16-C-11943-3834 16-C-11943-2485	CORD: uses RG-58/U; each end terminated w/UG-88/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-416/U (1', 2")		CORD: uses RG-38/U; one end terminated w/UG-15/U, other end terminated w/UG-16/U.
CG-420/U()		TRANSMISSION LINE: c/o section of flex rectangular waveguide terminated at one end w/UG-116/U and other end w/UG-117/U; waveguide is spirally wound metal tape w/a synthetic rubber jacket; mtd by flange at each end; similar to CG-370/U() except metal tape is not soldered. Equivalent to RG-53, 66/U (0.500 x 0.250).
CG-423/U() (0', 7 5/8")		CORD: uses RG-5/U; lg to be specified; terminated at one end w/NT-49194 Receptacle and UG-106/U at other end w/UG-10/U.
CG-431/U() (1', 10 7/8")		CORD: uses RG-64/U; moisture and fungus resistant.
CG-432/U() (0', 10") (1', 3")		CORD: uses RG-71/U; terminated at each end w/UG-85/U.
CG-433/U() (0', 5 3/4") (0', 7 5/8") (1', 3 1/2")	16-C-11943-2171 16-C-11943-2546 16-C-11943-4131	CORD: uses RG-58/U; one end terminated w/UG-88/U, other end stripped.
CG-434/U (1', 4 3/4") (1', 10 3/4") (2', 0")	16-C-11943-4371 16-C-11943-5741 16-C-11943-5741	CORD: uses RG-58/U; one end terminated w/UG-281/U, other end processed by having cond bare for 1/4", dielectric bare 1/8", braid shield bare 3/8".
CG-436/U (1', 2")		CORD: uses RG-58/U; terminated w/UG-88/U at one end and UG-90/U at other end.
CG-437/U (0', 8") (0', 9") (0', 9 5/8") (1', 2") (1', 7") (2', 8") (3', 5/8") (8', 0") (25', 0")	16-C-11943-2631 16-C-11943-2819 16-C-11943-3836 16-C-11943-4824 16-C-11943-7421 16-C-11945-2216 16-C-11948-5550	CORD: uses RG-58/U; ea end terminated w/UG-88/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-438/U (0', 10 1/2")		CORD: uses RG-58/U; terminated at one end w/UG-90/U and other end w/CRV type K-889023 sleeve and CRV type K-889024 Contact.
CG-440/U (0', 8 1/2")	16-C-11582-3571	CORD: uses RG-8/U; one end terminated w/UG-22/U; other end terminated w/UG-23/U modified w/ an "L" shaped mtg bkt.
CG-441/U (0', 3 1/8')	16-W-21991-1207	TRANSMISSION LINE: for bench and field testing.
CG-442/U (0', 3")	16-W-21991-1208	TRANSMISSION LINE: rigid, rectangular, brass, general use.
CG-443/U (0', 3.410")	16-W-21991-1120	TRANSMISSION LINE: for bench and field testing.
CG-444/U (1', 8") (6', 0") (20', 0")	16-C-11744-1334 16-C-12400-4616 16-C-12401-4016	CORD: uses RG-22A/U; ea end terminated w/UG-102/U.
CG-445/U (18', 0")		CORD: uses RG-14/U; terminated at each end w/UG-31/U.
CG-446/U (0', 7 1/2")	16-C-11582-3281	CORD: uses RG-8/U; one end terminated w/UG-21/U, other end is bare w/CRV-617979-502 ferrule and mtg bkt assem soldered to outside shield.
CG-447/U (0', 4 3/4")	16-C-11582-2240	CORD: uses RG-8/U; one end terminated w/UG-22/U, other end bare w/CRV-617979-501 ferrule to mtg bkt assem soldered to outside shield.
CG-448/U (4', 1") (4', 5") (5', 8")	16-C-11944-1821 16-C-11944-2626 16-C-11944-5621	CORD: uses RG-58/U; one end terminated w/UG-88/U, other end terminated w/UG-175/U and NT-49190.
CG-449/U (6', 6")		CORD: uses RG-58/U; terminated at each end w/UG-59/U.
CG-450/U (0', 9 3/4")	16-C-11943-2971	CORD: uses RG-58/U; one end terminated w/UG-85/U, other end processed by stripping cond for 1/2"

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-451/U (0', 10") (0', 11 1/2")	16-C-11943-3041	CORD: uses RG-58/U; ea end terminated w/UG-85/U.
CG-452/U (6', 4")		CORD: uses RG-25A/U; terminated at one end by AN-3106-18-16P and other end by AN-3106-18-16S; w/cable clamp AN-3057-10 on ea end.
CG-453/U		TRANSMISSION LINE: uses RG-44/U; terminated at one end by UG-45/U, other end by UG-46/U.
CG-454/U		CORD: uses RG-81/U; terminated at one end w/MX-675/U and other end w/UG-285/U.
CG-455/U (50', 3 1/16")		CORD: uses RG-81/U; terminated at each end w/UG-285/U.
CG-461/U		TRANSMISSION LINE: used to connect sect of RG-52/U, RG-67/U (1.000 x 0.500); c/o sect flex rectangular waveguide; mates w/choke UG-40A/U ea end.
CG-462/U		RF TRANSMISSION LINE: coax, terminated at one end w/UG-46/U, other end w/UG-45/U.
CG-465/U		RF CABLE ASSEMBLY: uses RG-58/U; terminated at one end w/UG-88/U, other end in binding posts.
CG-466/U		RF CABLE ASSEMBLY: uses RG-58/U; terminated at ea end w/CAQI L1-W104A banana plug.
CG-468/U		RF CABLE ASSEMBLY: c/o RG-63/U; terminated one end by probe attachment, other end by NT-49195.
CG-469/U	16-C-11744-4616	RF CABLE ASSEMBLY: c/o RG-22A/U; one end terminated in UG-102/U and a neoprene cap, other end in Amphenol Plug AN-3106-16S-55 or Cannon Plug 2077-8.
CG-470/U (0', 6")	16-W-21991-1052	TRANSMISSION LINE: for connecting waveguide sect or for test purposes; c/o RG-66/U, one end w/UG-176/U, other end w/UG-117/U; mts by fl coupling at each end.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-471/U		WAVEGUIDE ASSEMBLY: 90° twist, u/w RG-51/U, includes UG-51/U and UG-52A/U.
CG-472A/U		WAVEGUIDE ASSEMBLY: u/w RG-51/U, includes UG-51/U and UG-52A/U.
CG-473/U		ADAPTER: u/w RG-51/U includes two UG-51/U.
CG-474/U		ADAPTER: u/w RG-51/U includes two UG-52A/U.
CG-475/U		WAVEGUIDE ASSEMBLY; u/w RG-51/U includes UG-51/U and UG-52A/U.
CG-476/U		RF CABLE ASSEMBLY: c/o RG-17/U; terminated at one end w/MX-845/U, other end MX-845/U plus MX-847/U.
CG-477/U (1', 2") (1', 7") (6', 0") (13', 6")	16-C-11744-1243 16-C-11744-1338 16-C-11744-2221 16-C-11744-3716	RF CABLE ASSEMBLY: uses RG-22A/U terminated at each end in CFT connector RF-5440-2.
CG-478/U (1', 2")	16-C-11744-1248	RF CABLE ASSEMBLY: uses RG-22A/U; terminated at each end in CFT Connector RF-5440-2.
CG-479/U (100', 0")	16-C-11744-8516	RF CABLE ASSEMBLY: uses RG-22A/U; terminated at each end in one CFT Connector type NL-45783-3-2.
CG-480/U		RF CABLE ASSEMBLY: uses RG-22/U; terminated at one end in CPH Connector AN-3108-14S-7S; for general use.
CG-481/U	17-C-48882-1471	SPECIAL PURPOSE CABLE ASSEMBLY: c/o three cables, connector.
CG-482/U	17-C-48881-3271	SPECIAL PURPOSE CABLE ASSEMBLY: similar to CG-481/U except for position or insert in connector.
CG-483/U		RF CABLE ASSEMBLY: coax cable; one end molded in synthetic rubber, other end stripped 1/2" and tinned.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-484/U		RF CABLE ASSEMBLY: uses RG-64/U.
CG-485/U		RF CABLE ASSEMBLY: uses RG-64/U; u/w CW-143347 magnetron shield.
CG-486/U		RF CABLE ASSEMBLY: uses RG-64/U; CW type D receptacle BL-105702 on one end, CW type D plug BL-105703 on other end.
CG-487/U	16-C-12151-9807	RF CABLE ASSEMBLY: uses two lg of RG-64A/U; terminated on one end in UG-181A/U, other end w/ Zierick #21 term.
CG-495/U	16-E-16878-6408	WAVEGUIDE ELBOW: 90 degree "E" plane 3" elbow; c/o sect of RG-51/U terminated at one end in UG-51/U, other end in UG-52A/U; brass.
CG-496/U	16-E-16807-4196	WAVEGUIDE ELBOW: 90 degree "E" plane 3" elbow; c/o sect of RG-52/U term at one end in UG-39/U, other end in UG-40/U.
CG-497/U (2', 6 1/2")	16-C-11693-4071	RF CABLE ASSEMBLY: c/o lg of RG-17/U; terminated ea end by UG-154/U.
CG-498/U (6', 2 1/2")	16-C-12194-7687	RF CABLE ASSEMBLY: c/o three CG-448/U laced together; ea cable term individually w/UG-88/U on one end, UG-175/U on other end.
CG-501/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide; silver w/silver brass fl; terminated in two UG-383/U ea end; uses RG-96/U.
CG-502/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide; silver w/silver pl brass fl; term in UG-383/U ea end; general use; u/w RG-97/U waveguide.
CG-503/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide; silver w/silver pl brass fl; term in two UG-385/U; guide is RG-98/U; general use.
CG-504/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide; silver w/silver pl brass fl; term in two UG-387/U; guide is RG-99/U.
CG-505/U (3', 2 1/2")	16-C-11633-8731	RF CABLE ASSEMBLY: uses lg of RG-11/U; terminated at ea end in CFD Connector #187-58.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-506/U		RF CABLE ASSEMBLY: coax; 90 ohms characteristic impedance.
CG-516/U		RF CABLE ASSEMBLY: uses RG-58/U; terminated in NT-49660 one end, NT-491835 at other end.
CG-517/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide, brass; terminated in two UG-425/U ea end; uses RG-53/U, general use.
CG-518/U		WAVEGUIDE ASSEMBLY: rigid rectangular guide; silver; terminated in two UG-425/U ea end; uses RG-66/U; general use.
CG-519/U (3', 11")		WAVEGUIDE ASSEMBLY: flex waveguide wnd type w/molded synthetic jacket; similar to CG-170/U except terminated in flange UG-214/U at ea end. Mates with UG-200A/U. Equivalent to RG-48, 75/U (3.000 x 1.500).
CG-520/U		SPECIAL PURPOSE CABLE ASSEMBLY: c/o 4 cond, RG-58/U, shield of RG-58/U as second cond, third and fourth cond ea three #22 AWG stranded tinned copper cond of 7 strands #30 AWG ea.
CG-521/U (3', 1 5/16")	17-L-63389-1011	RF CABLE ASSEMBLY: uses RG-58/U; terminated at one end in UG-88/U and other end in 2 crocodile clips.
CG-528/U (3', 0")	16-C-11633-8216	RF CABLE ASSEMBLY: uses RG-11/U; terminated at one end in CAG type 774-M cable jack, and at other end in CAG type 774-E cable plug.
CG-535/U (10', 2")	17-C-48916-8001	SPECIAL PURPOSE CABLE ASSEMBLY: one end has CAY plug #7618086-17, other end has CAY plug #7618086-3.
CG-536/U (10', 1 3/4")	16-C-11586-1620	RF CABLE ASSEMBLY: uses RG-8/U; terminated at one end in CAY plug #7719170-G3 and at other end in CAY plug #7719170-G2.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-537/U		WAVEGUIDE ASSEMBLY: flex rectangular guide, wnd w/ non-ferrous silver pl strip w/ molded synthetic jacket; ea end mates w/ UG-417/U; flex waveguide for use w/ RG-69/U, RG-103/U (6.660 x 3.410); general use.
CG-538/U		WAVEGUIDE ASSEMBLY: flex wnd rectangular type, wnd non-ferrous silver pl strip w/ molded synthetic jacket; ea end mates w/ UG-435/U; u/w RG-104/U, RG-105/U (4.460 x 2.310); general use.
CG-539/U		WAVEGUIDE ASSEMBLY: flex rectangular guide; wnd w/ non-ferrous silver pl strip w/ molded synthetic jacket; ea end mates w/ UG-419/U; u/w RG-91/U and RG-107/U (0.702 x 0.391); general use.
CG-540/U		WAVEGUIDE ASSEMBLY: flex choke type, aluminum alloy chokes w/ molded synthetic covering; one end mates w/UG-51/U, other end mates w/UG-52/U; u/w RG-51/U and RG-68/U (1.250 x 0.625); general use.
CG-541/U		WAVEGUIDE ASSEMBLY: flex vertebrae choke type, alum alloy chokes, molded synthetic covering; one end mates w/UG-39/U, other end w/UG-40/U; u/w RG-52/U and RG-67/U (1.000 x 0.500); general use.
CG-542/U		WAVEGUIDE ASSEMBLY: flex vertebrae choke type, rectangular, alum alloy chokes w/molded synthetic covering; one end mates w/UG-117/U, other end w/ UG-116/U; u/w RG-91/U and RG-107/U (0.702 x 0.391); general use.
CG-543/U		SPECIAL PURPOSE CABLE ASSEMBLY: 12 cond #18 AWG; 16 strands of #30 copper; terminated w/AN-3106-16S-1S on one end; other end AN-3106-16S-1P.
CG-544/U		SPECIAL PURPOSE CABLE: 12 cond, #18 AWG, 16 strands of #30 copper ea; terminated w/AN-3106-22-5S one end and AN-3106-22-17P other end.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-546/U (2', 0") (6', 0")	16-C-11923-3411 16-C-11923-8221	RF CABLE ASSEMBLY: uses RG-55/U; terminated ea end in UG-88/U.
CG-547/U (5', 0") (7', 0") (14', 0") (26', 0")	16-C-11634-4031 16-C-11634-8911 16-C-11636-7631 16-C-11638-7631	RF CABLE ASSEMBLY: uses RG-11/U; terminated at ea end in NT-49190 Connector.
CG-550/U (5', 5")	16-C-11604-5001	RF CABLE ASSEMBLY: uses RG-9/U; terminated at one end in UG-21/U, other end in UG-42/U.
CG-553/U (1', 8 13/16") (2', 1")	16-C-11582-7294 16-C-11582-8551	RF CABLE ASSEMBLY: uses RG-8/U; terminated at ea end in UG-59A/U.
CG-554/U (250', 0")	16-C-11644-8807	RF CABLE ASSEMBLY: uses RG-11/U; terminated ea end w/UG-21B/U.
CG-567/U (8', 1/2")	16-C-11585-3001	RF CABLE ASSEMBLY: uses RG-8/U; terminated one end in UG-21B/U, other end open w/2" braid twisted and tinned, 1" ctr cond bare and tinned.
CG-570/U (3', 0")	16-C-11943-8231	RF CABLE ASSEMBLY: uses RG-58/U; terminated ea end w/ CARO Connector #MC-10 plus CAOR ins #H-2590 and pin #H-2591, one end w/ CAOR ins sleeve #H-2587.
CG-571/U (6', 0") (20', 0")	16-C-12125-4611 16-C-12126-1913	RF CABLE ASSEMBLY: uses RG-108/U; terminated one end in ANA Connector AN-3106-10SL-3S and CPH clamp #AN-3057-4, and at other end in NT-49007A Plug.
CG-572/U (20', 0") (20', 6 1/4")	16-C-12126-1911 16-C-12126-2224	RF CABLE ASSEMBLY: uses RG-108/U; one end terminated in NT-49929 telephone jack, other end in NT-49109 telephone plug.
CG-573/U (3', 2 9/16")	16-C-12125-1367	RF CABLE ASSEMBLY: uses RG-62/U; terminated at one end in UG-260/U and at other end in 2 leads, one 1" and one 5" each terminated w/ a #8 solder lug, CAD CO #70082.
CG-575/U		STRAIGHT ADAPTER: u/w RG-50/U, includes UG-150/U and UG-247/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-577/URM-6	16-C-12125-1367	RF ASSEMBLY: uses RG-108/U; one plug on each end.
CG-578/U (5', 0")	16-C-11944-4037	RF CABLE ASSEMBLY: uses RG-58/U; terminated ea end in modified NT-49121 w/adaptor UG-175/U.
CG-583/U		RF CABLE ASSEMBLY: coax; terminated each end by a CAG type #774-M jack.
CG-584/U		RF CABLE ADAPTER: coax; terminated at one end by a CAG type #774-M jack, other end has outer covering stripped back 1 5/8" and cond and shield fitted w/ spade term.
CG-616/U (1', 0")	16-C-11923-2201	RF CABLE ASSEMBLY: uses RG-55/U, terminated in UG-85/U on one end and UG-291/U on other end.
CG-617/U (0', 7 3/8")	16-C-11582-3240	RF CABLE ASSEMBLY: uses RG-8/U; terminated in UG-22A/U on one end and a brass, silver plated hex bushing w/ 3/8" - 32 thd on other end.
CG-618/U	16-W-21991-1063	WAVEGUIDE ASSEMBLY: flex "S" band rectangular guide; c/o elbow and flex section of guide interlocked soldered corrugations; not capable of pressurization.
CG-619/U	16-W-21991-1064	WAVEGUIDE ASSEMBLY: flex "S" band rectangular guide; not capable of twisting.
CG-627/U (8', 0")		SPECIAL PURPOSE CABLE ASSEMBLY: vinyl covered; terminated ea end in CED Connector #17069.
CG-629/U (6', 7")	17-C-48799-1001	SPECIAL PURPOSE CABLE ASSEMBLY: c/o 9 cond.
CG-630/U (6', 1")	17-C-48888-8039	RF CABLE ASSEMBLY: c/o 16 cond; one end has 16 wire leads, other end has 15 wire leads and a UG-58/U w/ CNA Hood.
CG-631/U (5', 0")	16-C-11944-4031	RF CABLE ASSEMBLY: uses RG-58/U; terminated one end in modified NT-49121-A Concentric Plug w/UG-175/U, other end has ANA Connector AN-3109-12S-3P w/ ANA Clamp AN-3051-4.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-632/U (5', 0")	16-C-11944-4043	RF CABLE ASSEMBLY: uses RG-58/U; terminated one end in NT-49121-A Concentric Plug w/ UG-175/U; other end in NT-49190 Concentric Plug and UG-175/U.
CG-633/U (1', 1 7/8")	16-C-11943-3789	RF CABLE ASSEMBLY: uses RG-58/U; terminated one end in UG-88/U, other end in NT-49194 Connector Receptacle.
CG-634/U (1', 8 1/2")	16-C-11943-5126	RF CABLE ASSEMBLY: uses RG-58/U; terminated one end in UG-88/U; other end stripped.
CG-635/U (0', 10 1/2")	16-C-11943-3121	RF CABLE ASSEMBLY: uses RG-58/U; terminated one end in UG-88/U, other end stripped.
CG-637/U		ADAPTER: u/w RG-69/U including two UG-417/U.
CG-638/U (6', 7/8")		RF CABLE ASSEMBLY: uses RG-11/U; has one NT-49195 Connector each end, one NT-49192 Adapter one end.
CG-639/U		ADAPTER: u/w RG-103/U includes two UG-418/U.
CG-642/U (1', 3/4")	16-C-11603-3580	RF CABLE ASSEMBLY: uses RG-9/U; terminated one end in UG-558/U, other end in UG-22B/U.
CG-643/U (0', 10 3/4")	16-C-11603-2990	RF CABLE ASSEMBLY: uses RG-9/U; terminated each end in UG-558/U.
CG-656/U (1', 0") (4', 0")	17-L-63388-8732 17-L-63389-1345	TEST LEAD: uses RG-58/U; terminated one end w/ UG-88/U, other end in red alligator clip CBIT #60 H.
CG-674/U (1', 0")	16-C-11923-2211	RF CABLE ASSEMBLY: uses RG-55/U; terminated each end in CW #BL-62736 Plug Connector.
CG-678/U (10', 0") (20', 0")	16-C-11957-5001 16-C-11957-3021	RF CABLE ASSEMBLY: uses RG-58A/U; terminated w/ plug connector UG-536/U each end.
CG-684/U		FLEXIBLE WAVEGUIDE: bronze, silvered, rubber jacket. Equivalent to RG-51, 68/U (1.25" x 0.625"). Mates w/ UG-52/U.

CG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
CG-719/U		BEAD-SUPPORTED COAXIAL LINE: inner conductor of copper tubing. Overall diameter 6.125". Nominal impedance 51.5 ohms.
CG-720/U		BEAD-SUPPORTED COAXIAL LINE: copper tube inner conductor. Overall diameter 3.125". Nominal impedance 51.5 ohms.
CG-731/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-69/U (6.66" x 3.41"). Mates w/ UG-417A/U
CG-732/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-52/U (1.0" x 0.5"). Mates w/UG-39, 40A/U.
CG-733/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-51/U (1.25" x 0.625"). Mates w/ UG-51, 52A/U.
CG-734/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-50/U (1.5" x 0.75"). Mates w/UG-343A, 344/U.
CG-735/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-49/U (2.0" x 1.0"). Mates w/UG-148B, 149A/U.
CG-736/U		FLEXIBLE WAVEGUIDE: brass, silver-plated, rubber jacket. Equivalent to RG-48/U (3.0" x 1.5"). Mates w/UG-53, 54A/U.
CG-779/U		FLEXIBLE WAVEGUIDE: bronze, silvered, rubber jacket. Equivalent to RG-52, 67/U (1.0" x 0.5"). Mates w/ UG-135/U.

RG TABLE

The following RG Table is included for reference only. Due to the rapidity of replacing or superseding existing RG items, it is impossible to keep such a table up-to-date. For latest revisions, refer to the Catalog of Navy Type Electronic Material, NavShips 900, 109(A).

RG numbers are Army-Navy standard type designations assigned to RF cables, waveguides, etc., without terminals. The following table contains, in addition to the RG number, the standard Navy stock number (if available), a description of the item, and its application. Improved versions of the original item will include the suffix A immediately following the number.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-1/APS-3	Cancelled		RADIO FREQUENCY LINE: <u>Cancelled</u> . Reassigned CG-1/APS-3. Special Waveguide.
RG-2/APS-3			RADIO FREQUENCY LINE: <u>Cancelled</u> . Reassigned CG-2/APS-3. Special Waveguide.
RG-3/APS-3			RADIO FREQUENCY LINE: <u>Cancelled</u> . Reassigned CG-3/APS-3. Special Waveguide.
RG-4/U		50	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.226"OD. Replaced by RG-58/U.
RG-5/U	15-C-12160-250	52-50	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.332" OD.
RG-5A/U *RG-5B/U	15-C-12160-195	50	RADIO FREQUENCY CABLE: coaxial type, small size microwave cable, similar to RG-5/U except for impedance, silver-coated conductors and non-contaminating jacket. 0.332" OD.
RG-6/U *RG-6A/U	15-C-12201-700	76	RADIO FREQUENCY CABLE: coaxial type, synthetic resin, outer jacket 0.332" OD. Small size video and communication cable.
RG-7/U	15-C-12201-925	95	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.370" OD.
RG-8/U RG-8A/U	15-C-12200-600	52	RADIO FREQUENCY CABLE: Medium size flexible cable, coaxial type, synthetic resin outer jacket 0.405" OD.
RG-9/U	15-C-12200-500	51	RADIO FREQUENCY CABLE: coaxial type, outer jacket synthetic resin. Replaced by RG-9A, 9B/U. 0.420" OD.

* This cable is mechanically and electrically the same as the one listed with it but has the improved, non-contaminating, low temperature synthetic resin jacket.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-9A/U *RG-9B/U	15-C-12200-525	51	RADIO FREQUENCY CABLE: special medium size flexible cable, coaxial type. Similar to and interchangeable with RG-9/U except has improved braid construction and tubed jacket for greater attenuation, stability with heat and flexing. Synthetic resin outer jacket 0.420" OD.
RG-10/U *RG-10A/U	15-C-12200-625	52	RADIO FREQUENCY CABLE: coaxial type, armored 0.475" OD. Replaced by RG-8/U with armor.
RG-11/U *RG-11A/U	15-C-12201-625	75	RADIO FREQUENCY CABLE: medium size, flexible, video and communication cable, coaxial type, outer jacket 0.405" OD. Synthetic resin outer jacket.
RG-12/U *RG-12A/U	15-C-12201-650	75	RADIO FREQUENCY CABLE: coaxial type, armored 0.475" OD. Replace with RG-11/U with armor synthetic resin.
RG-13/U *RG-13A/U	15-C-12201-575	74	RADIO FREQUENCY CABLE: coaxial type, medium size flexible video and communication cable, synthetic resin outer jacket 0.420" OD.
RG-14/U *RG-14A/U	15-C-12200-650	52	RADIO FREQUENCY CABLE: medium size power transmission cable, coaxial type, synthetic resin outer jacket 0.545" OD.
RG-15/U	15-C-12201-725	76	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.545" OD.
RG-16/U	15-C-12200-700	52	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.630" OD.
RG-17/U *RG-17A/U	15-C-12200-725	52	RADIO FREQUENCY CABLE: large size, low attenuation, high power transmission cable, coaxial type, synthetic resin outer jacket 0.870" OD.

ORIGINAL

18-131

TABLES

NAVSHIPS 900, 171

Section 18-1

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-18/U *RG-18A/U	15-C-12200-750	52	RADIO FREQUENCY CABLE: coaxial type, armored 0.945" OD. Replaced by RG-17/U with armor.
RG-19/U *RG-19A/U	15-C-12200-775	52	RADIO FREQUENCY CABLE: very large, low attenuation high power transmission cable, coaxial type, synthetic resin outer jacket 1.120" OD.
RG-20/U *RG-20A/U	15-C-12200-800	52	RADIO FREQUENCY CABLE: coaxial type, armored, 1.195" OD. Replaced by RG-19/U with armor.
RG-21/U *RG-21A/U	15-C-12200-950	53	RADIO FREQUENCY CABLE: special high attenuation cable with small temperature coefficient of attenuation, coaxial type, synthetic resin outer jacket, 0.332" OD.
RG-22/U	15-C-12212-50	95	RADIO FREQUENCY CABLE: twin coaxial type, synthetic resin outer jacket 0.405" OD. Replaced by RG-22A/U or RG-22B/U.
RG-22A/U *RG-22B/U	15-C-12160-640	95	RADIO FREQUENCY CABLE: twisted turn coaxial type, similar to RG-22/U except for twisted inner conductor, double braid and non-contaminating jacket. Small size balanced, twin conductor synthetic resin outer jacket 0.420" OD.
RG-23/U *RG-23A/U	15-C-12217-50	125	RADIO FREQUENCY CABLE: twin coaxial type, synthetic resin outer jacket, oval shape 0.650" x 0.945" OD.
RG-24/U	15-C-12217-75	125	RADIO FREQUENCY CABLE: twin coaxial type, armored, oval shape, 0.735" x 1.034" OD. Replaced by RG-23/U with armor.
RG-25/U	15-C-12200-350	48	RF HIGH VOLTAGE PULSE CABLE: special cable for twist application, coaxial type chloroprene outer jacket 0.565" OD. Replaced by RG-25A/U.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-25A/U	15-C-12200-325	48	RF HIGH VOLTAGE PULSE CABLE: coaxial type, chloroprene outer jacket 0.505" OD.
RG-26/U	15-C-12200-200	48	RF HIGH VOLTAGE PULSE CABLE: coaxial type, armored, 0.525" OD; medium size cable.
RG-26A/U	15-C-12200-175	48	RF HIGH VOLTAGE PULSE CABLE: coaxial type, armored, 0.505" OD.
RG-27/U	15-C-12200-375	48	RF HIGH VOLTAGE PULSE CABLE: coaxial type, armored, 0.675" OD. Large size cable.
RG-28/U	15-C-12200-400	48	RF HIGH VOLTAGE PULSE CABLE: large size cable, coaxial type, chloroprene outer jacket 0.805" OD.
RG-28A/U		50	RF HIGH VOLTAGE PULSE CABLE: with armor, 0.805" OD, rubber jacket; for use at -55°C.
RG-29/U	15-C-12201-25	53.5	RADIO FREQUENCY CABLE: coaxial type, polyethylene outer jacket 0.184" OD. Replaced by RG-58/U.
RG-30/U	15-C-12160-725	58	RADIO FREQUENCY CABLE: coaxial type, low loss dielectric type; synthetic resin outer jacket 0.250" OD. Replaced by RG-58/U.
RG-31/U	15-C-12160-300	51	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.405" OD. Replaced by RG-8/U.
RG-32/U	15-C-12160-275	51	RADIO FREQUENCY CABLE: coaxial type, armored, 0.465" OD. Replaced by RG-10/U.
RG-33/U	15-C-12160-350	51	RADIO FREQUENCY CABLE: coaxial type, lead sheath serves as outer jacket 0.470" OD.
RG-34/U *RG-34A/U	15-C-12201-375	71	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket 0.625" OD.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-35/U *RG-35A/U	15-C-12201-400	71	RADIO FREQUENCY CABLE: coaxial type, armored. Same as RG-85/U except does not use lead sheath or steel woven armor; 0.945" OD. Large size, high power, low attenuation. Video and communication cable.
RG-36/U	15-C-12161-100	69	RADIO FREQUENCY CABLE: coaxial; low loss dielectric cable, armored, 1.180" OD.
RG-37/U	15-C-12200-850	52.5	RADIO FREQUENCY CABLE: coaxial type, polyethylene outer jacket, 0.210" OD. Replaced by RG-58/U.
RG-38/U	15-C-12200-875	52.5	RADIO FREQUENCY CABLE: coaxial type, polyethylene outer jacket, 0.312" OD. Replaced by RG-5/U.
RG-39/U	15-C-12201-450	72.5	RADIO FREQUENCY CABLE: coaxial type, polyethylene outer jacket, 0.312" OD. Replaced by RG-6/U, RG-59/U.
RG-40/U	15-C-12201-475	72.5	RADIO FREQUENCY CABLE: coaxial type, chloroprene outer jacket, 0.420" OD. Replaced by RG-6/U.
RG-41/U	15-C-12201-275	67.5	RADIO FREQUENCY CABLE: coaxial type, chloroprene outer jacket, 0.425" OD.
RG-42/U	15-C-12201-825	78	RADIO FREQUENCY CABLE: coaxial type, synthetic resin outer jacket, 0.342" OD. Replaced by RG-21/U.
RG-43/U	15-C-12207-9500	95	RADIO FREQUENCY CABLE: twin axial type, synthetic resin outer jacket, 0.617" OD.
RG-44/U	16-L-79116-7801	50	TRANSMISSION LINE: rigid stub type coaxial transmission line, stub is tuned for "S" Band frequency, outer conductor 0.875" OD.
RG-45/U	16-L-79123-6926	50	TRANSMISSION LINE: rigid stub type coaxial transmission line, stub is tuned for "S" Band frequency, outer conductor 1.25" OD.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-46/U	16-L-79126-9176	50	TRANSMISSION LINE: rigid stub type coaxial transmission, stub tuned to "S" Band frequency, outer conductor 1.625" OD.
RG-47/U	16-L-79109-8926	50	TRANSMISSION LINE: rigid stub type coaxial transmission line, stub tuned to "K" Band frequency, outer conductor 0.5" OD.
RG-48/U			WAVEGUIDE: rectangular, rigid, brass, 3.000" x 1.50" OD.
RG-48/U (6 feet)	16-W-20550-4032		WAVEGUIDE: rectangular, rigid, brass, nominal outside dimensions 3" x 1.5".
RG-48/U (8 feet)	16-W-20550-4042		
RG-48/U (10 feet)	16-W-20550-4052		
RG-48/U (12 feet)	16-W-20550-4062		
RG-48/U (14 feet)	16-W-20550-4072		
RG-49/U (6 feet)	16-W-20383-8532		WAVEGUIDE: rectangular, rigid, brass, 2.000" x 1.000" OD.
RG-49/U (8 feet)	16-W-20383-8542		
RG-49/U (10 feet)	16-W-20383-8552		
RG-49/U (12 feet)	16-W-20383-8562		

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-49/U (14 feet)	16-W-20383-8572		
RG-50/U			WAVEGUIDE: rectangular, rigid, brass, outside dimensions 1.500" x 0.750".
RG-50/U (6 feet)	16-W-20254-4032		
RG-50/U (8 feet)	16-W-20254-4042		
RG-50/U (10 feet)	16-W-20254-4052		
RG-50/U (12 feet)	16-W-20254-4062		
RG-50/U (14 feet)	16-W-20254-4072		
RG-51/U			WAVEGUIDE: rectangular, brass, outside dimensions 1.25" x 0.625".
RG-52/U			WAVEGUIDE: brass, outside dimensions 1" x 0.5".
RG-53/U			WAVEGUIDE: brass, outside dimensions 0.5" x 0.25".
RG-54/U		58	RF CABLE: coaxial type, improved version of RG-30/U. Synthetic resin outer jacket, 0.275" OD.
RG-54A/U	15-C-12201-175	58	RF CABLE: coaxial, same as and supersedes RG-54/U except dielectric is changed and conductor tinned to prevent increased attenuation w/ age; polyethylene outer jacket, 0.250" OD.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-55/U	15-C-12201-75	53.5	RF CABLE: small size flexible cable, coaxial type, polyethylene outer jacket, 0.206" OD.
RG-56/U			RF CABLE: coaxial type, synthetic resin jacket, 0.535" OD. Special twist.
RG-57/U *RG-57A/U	15-C-12212-75	95	RF CABLE: twin and coaxial type, synthetic resin outer jacket, 0.625" OD. Large size twin conductor cable.
RG-58/U *RG-58B/U	16-C-11943-4441	53.5	RF CABLE: coaxial type, synthetic resin outer jacket, 0.195" OD.
RG-58A/U RG-58C/U	15-C-12200-575	52	RF CABLE: small size flexible cable, coaxial type, similar to UG-58/U, has stranded inner conductor which permits use where considerable handling is required. Synthetic resin outer jacket, 0.195" OD.
RG-59/U *RG-59A/U	15-C-12201-525 15-C-12201-528	73	RF CABLE: coaxial type, synthetic resin outer jacket, 0.242" OD. General purpose, small size, video cable.
RG-60/U	15-C-12201-525	50	RF CABLE: coaxial type, chloroprene outer jacket, 0.425" OD.
RG-61/MRQ			Special 500 ohm line.
RG-62/U *RG-62A/U	15-C-12202-25	93	RF CABLE: coaxial type, synthetic resin outer jacket, 0.242" OD. Small size, low capacitance, air spaced cable.
RG-63/U *RG-63B/U	15-C-12202-125	125	RF CABLE: coaxial type, synthetic resin outer jacket, 0.405" OD. Medium size, low capacitance, air spaced cable.
RG-63A/U		125	RF CABLE: coaxial type, an improved version of, replaces, and is interchangeable with RG-63/U. Synthetic resin outer jacket, 0.415" OD.

ORIGINAL

18-137

TABLES

NAVSHIPS 900, 171

Section 18-1

18-138

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-64/U	15-C-12200-300	48	RF CABLE: medium size cable; coaxial type, superseded by RG-64A/U. Chloroprene outer jacket, 0.495" OD.
RG-64A/U	15-C-12200-250	48	RF CABLE: coaxial type, chloroprene outer jacket, 0.475" OD.
RG-65/U *RG-65A/U	15-C-12202-500	950	RF CABLE: coaxial type, synthetic resin outer jacket, 0.405" OD. High impedance video cable, high delay line.
RG-66/U			WAVEGUIDE: outside dimensions 0.500" x 0.250" commercial coin silver.
RG-66/U (6 feet)	16-W-19669-2532		
RG-66/U (8 feet)	16-W-19669-2542		
RG-66/U (10 feet)	16-W-19669-2552		
RG-66/U (12 feet)	16-W-19669-2562		
RG-66/U (14 feet)	16-W-19669-2572		
RG-67/U			WAVEGUIDE: aluminum, outside dimensions 1" x 0.5".
RG-67/U (6 feet)	16-W-20102-4032		
RG-67/U (8 feet)	16-W-20102-4042		

8-1 Section

NAVSHIPS 900, 171

TABLES

ORIGINAL

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-67/U (10 feet)	16-W-20102-4052		
RG-67/U (12 feet)	16-W-20102-4062		
RG-67/U (14 feet)	16-W-20102-4072		
RG-68/U			WAVEGUIDE: aluminim, outside dimensions 1.250" x 0.625".
RG-68/U (6 feet)	16-W-20193-8532		
RG-68/U (8 feet)	16-W-20193-8542		
RG-68/U (10 feet)	16-W-20193-8552		
RG-68/U (12 feet)	16-W-20193-8562		
RG-68/U (14 feet)	16-W-20193-8572		
RG-69/U			WAVEGUIDE: brass, outside dimensions 6.66" x 3.410".
RG-69/U (6 feet)	16-W-20776-4032		
RG-69/U (8 feet)	16-W-20776-4042		

ORIGINAL

18-139

TABLES

NAVSHIPS 900, 171

Section 18-1

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-69/U (10 feet)	16-W-20776-4052		
RG-69/U (12 feet)	16-W-20776-4062		
RG-69/U (14 feet)	16-W-20776-4072		
RG-71/U	15-C-12202-50	93	RF CABLE: coaxial type, polyethylene outer jacket, 0.250" OD. Small size, low capacitance, air spaced cable.
RG-72/U	15-C-12162-425	150	RF CABLE: coaxial type, synthetic resin jacket, 0.630" OD.
RG-73/U		25	RF CABLE: 0.275" OD, copper braid.
RG-74/U *RG-74A/U	15-C-12202-675	50	RF CABLE: coaxial type, armored, 0.615" OD. Replaced by RG-14/U with armor.
RG-75/U	16-W-20549-8571		WAVEGUIDE: aluminum, outside dimensions 3.0" x 1.50".
RG-76/U	16-L-79113-2176	50	WAVEGUIDE: stub type, outer conductor 0.625" OD, inner conductor 0.250".
RG-77/U *RG-77A/U	15-C-12200-225	48	CABLE: coaxial type, polyethylene outer jacket, 0.415" OD. Similar to RG-64/U except has non-conducting third layer in core.
RG-78/U *RG-78A/U	15-C-12200-150	50	CABLE: coaxial type, polyethylene outer jacket, 0.385" OD. Similar to RG-26/U except has non-conducting third layer in core. High voltage cable.
RG-79/U *RG-79B/U	15-C-12202-150	125	CABLE: coaxial type, armored, 0.475" OD. Replaced by RG-63/U with armor.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-79A/U	15-C-12162-166	125	CABLE: coaxial type, armored, an improved version of, replaces and is interchangeable with RG-79/U. 0.415" OD.
RG-80/U		51	TRANSMISSION LINE: rigid beaded type coaxial, outer conductor 0.9375" OD.
RG-81/U	15-C-12160-210	52	CABLE: small semi-rigid cable operating at temperatures to 250°C. Semi-flexible coaxial type, pyrotenax, outer conductor solid copper shield, 0.375" OD.
RG-82/U	15-C-12160-465	52	CABLE: large semi-rigid cable operating at temperatures to 250°C. Semi-flexible coaxial type, pyrotenax, outer conductor solid copper shield, 0.750" OD.
RG-83/U	15-C-12200-50	35	CABLE: coaxial type, synthetic resin outer jacket, 0.405" OD, used in antenna impedance matching transformers.
RG-84/U *RG-84A/U	15-C-12161-190	71	RF CABLE: semi-rigid coaxial type, same as RG-35/U except lead sheath is used in place of steel woven armor; designed for underground use, 1.00" OD.
RG-85/U *RG-85A/U	15-C-12161-185	71	RF CABLE: coaxial type, designed for underground use; same as RG-35/U except for teflon sheath; 1.565" OD. Replaced by RG-84/U with special armor.
RG-86/U		205	RF CABLE: 0.695" x 0.285" OD. Polyethylene jacket.
RG-87/U	15-C-12160-325	50	RF CABLE: coaxial type, except teflon insulated. Replaced by RG-87A/U, 0.370" OD.
RG-87A/U	15-C-12160-225	50	RF CABLE: coaxial, teflon insulated, 0.425" OD. Semi-flexible cable operating at temperatures -55° to 250°C.
RG-88/U *RG-88A/U		50	RF CABLE: 0.490" OD. Polyethylene outer jacket. Replaces RG-77/U in aircraft application.

ORIGINAL

18-141

TABLES

NAVSHIPS 900, 171

Section 18-1

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-89/U		125	RF CABLE: special low capacity; semi-rigid coaxial type; same as RG-63/U except for thickness of dielectric; synthetic resin outer jacket, 0.632" OD.
RG-90/U		50	RF CABLE: 0.450" OD, synthetic resin outer jacket. Still in design stage.
RG-91/U			WAVEGUIDE: brass, outside dimensions 0.702" x 0.391".
RG-92/U		50	RF TRANSMISSION LINE: coaxial with teflon bead insulation, outer conductor copper tubing, 0.875" OD.
RG-93/U	15-C-12200-425	50	RF CABLE: coax, teflon, outer conductor jacket, 0.710" OD.
RG-94/U	15-C-12200-415	50	RF CABLE: coax, teflon tape outer jacket, 0.445" OD.
RG-95/U			WAVEGUIDE: similar to RG-49/U except made of aluminum instead of brass, outside dimensions 2" x 1".
RG-96/U			WAVEGUIDE: rigid rectangular; silver, outside dimensions 0.360" x 0.220".
RG-97/U			WAVEGUIDE: rigid rectangular; silver, outside dimensions 0.304" x 0.192".
RG-98/U			WAVEGUIDE: rigid rectangular; silver, outside dimensions 0.228" x 0.154".
RG-99/U			WAVEGUIDE: rigid rectangular; silver, outside dimensions 0.202" x 0.141".
RG-100/U	15-C-12160-25	35	RF CABLE: coaxial type, synthetic resin outer jacket, 0.242" OD. For general use.
RG-101/U	15-C-12161-300	70	RF CABLE: coaxial type, 0.588" OD.

18-142

ORIGINAL

18-1 Section

NAVSHIPS 900, 171

TABLES

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-102/U	15-C-12155-100	140	RF CABLE: parallel pair, 0.5" center to center, rubber dielectric. Two conductors. Dimensions (0.588" x 1.088").
RG-103/U			WAVEGUIDE: rigid rectangular; same as RG-69/U except aluminum instead of brass; outer dimensions 6.660" x 3.410".
RG-104/U			WAVEGUIDE: rigid rectangular; similar to RG-105/U except brass instead of aluminum; outer dimensions 4.460" x 2.31".
RG-105/U			WAVEGUIDE: rigid rectangular; aluminum, outer dimensions 4.46" x 2.31", same as RG-104/U except aluminum instead of brass.
RG-106/U			WAVEGUIDE: rigid rectangular; same as RG-50/U except aluminum instead of brass; outer dimensions 1.5" x 0.75".
RG-107/U			WAVEGUIDE: rigid rectangular; similar to RG-91/U except silver instead of brass; outside dimensions 0.702" x 0.391".
RG-108/U *RG-108A/U		76	RF CABLE: twin conductor twisted pair; synthetic resin jacket, 0.235" OD.
RG-109/U			WAVEGUIDE: rigid rectangular, brass, outside dimensions 3" x 1.1640".
RG-109/U (2 feet)	16-W-20544-1751		
RG-109/U (4 feet)	16-W-20544-1801		
RG-109/U (6 feet)	16-W-20544-1851		
RG-109/U (8 feet)	16-W-20544-1901		

ORIGINAL

18-143

TABLES

NAVSHIPS 900, 171

Section 18-1

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-109/U (10 feet)	16-W-20544-1951		
RG-109/U (14 feet)	16-W-20544-2001		
RG-110/U			WAVEGUIDE: rigid rectangular; brass, outside dimensions 1.5" x 0.615".
RG-110/U (2 feet)	16-W-20250-2501		
RG-110/U (4 feet)	16-W-20250-2525		
RG-111/U *RG-111A/U	15-C-12161-645	95	RF CABLE: twisted twin axial; similar to RG-22A/U except for armor braid over jacket; outside dimensions 0.490".
RG-112/U			WAVEGUIDE: rigid rectangular; brass, outside dimensions 3.56" x 1.86".
RG-113/U			WAVEGUIDE: rigid rectangular; aluminum, outside dimensions 3.560" x 1.860".
RG-114/U *RG-114A/U		185	RF CABLE: synthetic resin outer jacket, 0.405" OD.
RG-115/U	15-C-12160-220	50	RF CABLE: coaxial type; teflon, outside dimensions 0.370". Semi-flexible cable operating at temperatures -55° to 250°C.
RG-116/U	15-C-12160-238	50	RF CABLE: coaxial, teflon, same as RG-87A/U except incorporates aluminum armor braid for additional protection, outside dimensions 0.475".

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-117/U	15-C-12160-246	50	RF CABLE: coaxial; similar to but not interchangeable with RG-93/U; similar to RG-118/U but not armored; outside dimensions 0.730". Semi-flexible cable, operating at temperatures -55° to 250°C.
RG-118/U	15-C-12160-248	50	RF CABLE: coaxial; teflon, similar to RG-117/U but includes armor; outside dimensions 0.790".
RG-119/U	15-C-12160-241	50	RF CABLE: coaxial; similar to RG-94/U except teflon is solid in lieu of taped construction and dimensions are different; outside dimensions 0.465". Semi-flexible cable, operating at temperatures -55° to 250°C.
RG-120/U	15-C-12160-243	50	RF CABLE: coaxial; teflon dielectric, similar to RG-119/U except armored and OD is 0.515".
RG-121/U			WAVEGUIDE: rigid rectangular, aluminum, 0.5" x 0.250" OD.
RG-122/U		50	RF CABLE: synthetic resin outer jacket, 0.160" OD. Same as RG-58A/U except smaller in size and lighter in weight.
RG-124/U		73	RF CABLE: teflon coated outer jacket, 0.240" OD.
RG-125/U		150	RF CABLE: synthetic resin outer jacket, 0.600" OD.
RG-126/U		50	RF CABLE: teflon coated outer jacket, 0.275" OD.
RG-127/U			WAVEGUIDE: rigid rectangular, laminated silver, 6.580" x 3.330" OD, stainless steel outside; silver inside.
RG-128/U		50	BEAD SUPPORTED COAXIAL LINE: teflon, 1.625" OD.

ARMY-NAVY STANDARD LIST OF RG TYPE DESIGNATION (Cont'd)

Army-Navy Type Number	Standard Navy Stock Number	Impedance (Ohms)	Remarks
RG-129/U			WAVEGUIDE: flexible aluminum, no flanges. Equivalent to RG-53, 66/U. 0.5 x 0.25" OD. Stainless steel, armor covered.
RG-130/U		95	RF CABLE: synthetic resin outer jacket, 0.625" OD. Same as RG-57/U except inner conductors are twisted for improved flexibility.
RG-131/U		95	RG CABLE: synthetic resin coated with aluminum armor, 0.710" OD. Same as RG-130/U except for armor.
RG-132/U			WAVEGUIDE: rigid rectangular, brass, 6.58" x 3.33". Same as RG-69/U except wall thickness 0.040", nominal.

* Asterisk indicates cable is mechanically and electrically the same as the one listed with it but has the improved non-contaminating, low temperature synthetic resin jacket.

UG TABLE

The following UG Table is included for reference only. Due to the rapidity of replacing or superseding existing UG items, it is impossible to keep such a table up-to-date. For latest revisions, refer to the Catalog of Navy Type Material, NavShips 900,109(A).

UG numbers are assigned to unions, plugs, sockets, choke couplings, adapters, elbows, flanges, etc. The following table contains, in addition to the UG number, the standard Navy Stock number (if available), a description of the item, and its application. Improved versions of the original item will include the suffix A immediately following the number.

UG TABLE

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-1/TSM-1		SPECIAL ASSEMBLY
UG-2/TSM-1		SPECIAL ASSEMBLY
UG-3/TSM-1		SPECIAL ASSEMBLY
UG-4/TSM-1		SPECIAL TEE FITTING
UG-5/U	16-C-93356-5601	CHOKE COUPLING: obsolete, replaced by AN cover plate UG-51/U and choke UG-42/U.
UG-6/U	16-F-650511-154	CHOKE COUPLING: pressurized; coupling of UG-39/U and UG-40/U.
UG-7AP		ADAPTER: type N to 72 ohm; Holmdel.
UG-8/U		HOLMDEL JACK: type N, 50 ohms. Weatherproof.
UG-8/AP		ADAPTER: type N to 72 ohm; Holmdel.
UG-9/U	17-C-71414-3655	RF PLUG: type N, 50 ohms, non-weatherproof; u/w RG-5, 21/U. Superseded, use UG-18B/U.
UG-10/U	17-C-73108-6031	RF JACK: type N connector, 50 ohms, non-weatherproof; u/w RG-5, 21/U. Replaced by UG-19B/U.
UG-11/U	17-C-67730-4711	RF JACK: type N connector, 50 ohms, non-weatherproof; u/w RG-5, 21/U. Replaced by UG-20B/U.
UG-12/U	17-C-71414-2900	RF PLUG: superseded; for replacement use UG-21D/U, type N connector, 50 ohms, non-weatherproof; u/w RG-8, 9, 10/U.
UG-13/U	17-C-73114-3031	RF JACK: non-weatherproof, type N connector, 50 ohms; u/w RG-8, 9, 10/U. Replaced by UG-22D/U.
UG-14/U		RF JACK: non-weatherproof, type N connector, 50 ohms; u/w RG-8, 9, 10/U. Replaced by UG-23D/U.
UG-15/U	17-C-71415-7654	RF PLUG: non-weatherproof, type N connector, 50 ohms; u/w RG-5, 21/U. Replaced by UG-18B/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-16/U	17-C-73108-6061	RF JACK: non-weatherproof, type N, 50 ohms; u/w RG-38/U.
UG-17/U	17-C-71114-5552	RF JACK: non-weatherproof, type N, 50 ohms; u/w RG-38/U.
UG-18/U	17-C-71417-3503	RF PLUG: weatherproof, type N, 50 ohms; u/w RG-5, 21/U. Replaced by UG-18B/U.
UG-18A/U	17-C-71415-1894	RF PLUG: weatherproof, type N, 50 ohms; u/w RG-5, 21/U. Replaced by UG-18B/U.
UG-18B/U	17-C-71412-8699	RF PLUG: weatherproof, type N, 50 ohms; Teflon insert; u/w RG-5, 5A, 6, 21/U.
UG-19/U	17-C-73108-6094	RF JACK: weatherproof, type N, 50 ohms; u/w RG-5, 21/U. Replaced by UG-19B/U.
UG-19A/U	17-C-73108-6063	RF JACK: weatherproof, type N, 50 ohms; u/w RG-5, 21/U. Replaced by UG-19B/U. Improved version of RG-19/U.
UG-19B/U	17-C-73108-6065	RF JACK: weatherproof, type N, 50 ohms; u/w RG-5, 5A, 6, 21/U and UG-18B/U. Similar to UG-19A/U.
UG-20/U	17-C-73115-8381	RF JACK: weatherproof, type N, 50 ohms; u/w RG-5, 21/U; supersedes NT-49299; replaced by UG-20B/U.
UG-20A/U	17-C-71114-9101	RF JACK: weatherproof, type N, 50 ohms; u/w RG-5, 21/U. Replaced by UG-20B/U; mechanical improvement over UG-20/U.
UG-20B/U	17-C-71116-2361	RF JACK: weatherproof, type N, 50 ohms; similar to UG-21A, 22A, 23A/U except w/ lower reflection at microwave frequency; u/w RG-5, 5A, 6, 21/U; u/w but not p/o UG-18B/U.
UG-21/U	17-C-71415-1830	RF PLUG: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U. Replaced by UG-21D/U.
UG-21A/U	17-C-71415-1898	RF PLUG: weatherproof; has improved cable clamp and is improved mechanical version of UG-21/U; type N, 50 ohms; u/w RG-8, 9/U; UG-22A, 23/U. Replaced by UG-21D/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-21B/U	17-C-71416-2550	RF PLUG: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U and UG-22A, 23A/U. Replaced by UG-21D/U.
UG-21C/U		RF PLUG: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U. Replaced by UG-21D/U.
UG-21D/U		RF PLUG: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U.
UG-22/U	17-C-73108-6098	RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U. Supersedes NT-49269. Replaced by UG-22D/U.
UG-22A/U	19-C-73108-6068	RF JACK: weatherproof, type N, 50 ohms; has improved cable clamping and is an improved mechanical version of UG-22/U; u/w RG-8, 9, 10/U and UG-21A/U. Replaced by UG-22D/U.
UG-22B/U	17-C-73108-6117	RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U and UG-21B/U. Replaced by UG-22D/U.
UG-22C/U		RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U. Replaced by UG-22D/U.
UG-22D/U		RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U.
UG-23/U	17-C-73112-7991	RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U. Replaced by UG-23D/U. Supersedes NT-49298.
UG-23A/U	17-C-71115-3384	RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U and UG-21A/U; has improved cable clamping and is an improved mechanical version of UG-23/U. Replaced by UG-23D/U.
UG-23B/U	17-C-71115-7923	RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U and UG-21B/U. Replaced by UG-23D/U.
UG-23C/U		RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 9A, 10/U. Replaced by UG-23D/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-23D/U		RF JACK: weatherproof, type N, 50 ohms; u/w RG-8, 9, 10/U.
UG-24/U	17-C-71417-3501	RF PLUG: weatherproof, type N, 50 ohms; supersedes NT-49285; replaced by UG-21D/U.
UG-25/U		RF JACK: weatherproof, type N, 50 ohms; u/w RG-9/U; superseded NT-49285. Replaced by UG-22D/U.
UG-26/U	17-C-73115-8440	RF JACK: weatherproof, type N, 50 ohms; u/w RG-9/U; supersedes NT-49445; replaced by UG-23D/U.
UG-27/U	17-C-67444-5080	ADAPTER: right-angle, weatherproof, type N, 50 ohms, Teflon OJ; similar to UG-27A/U but larger and with higher reflection coef, interchangeable with UG-27A/U where size and electrical properties are not critical. Replaced by UG-27C/U.
UG-27A/U	17-C-67444-5085	ADAPTER: right-angle, weatherproof, type N, 50 ohms; supersedes NT-49267; replaced by UG-27C/U.
UG-27B/U	17-C-67444-5090	ADAPTER: right-angle, weatherproof, type N, 50 ohms. Adapts UG-21B/U to UG-22B/U. Similar to UG-27A/U except slightly smaller and suitable for high temperature operation. Replaced by UG-27C/U.
UG-27C/U		ADAPTER: right-angle, weatherproof, type N, 50 ohms.
UG-28/U	17-C-68713-2386	ADAPTER: tee, type N, 50 ohms, weatherproof when mated with type N plug. Replaced by UG-28A/U.
UG-28A/U	17-C-68711-9338	ADAPTER: tee, type N, 50 ohms, weatherproof when mated with type N plug. Similar to UG-28/U except smaller and different insert material. Three female ends.
UG-29/U	17-C-67732-2907	ADAPTER: straight, type N, 50 ohms, weatherproof; adapts two UG-21B/U or equal; supersedes NT-49451. Replaced by UG-29B/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-29A/U	17-C-67729-2081	ADAPTER: straight, type N, 50 ohms. Similar to and interchangeable w/ UG-29B/U; supersedes NT-49451; replaced by UG-29B/U.
UG-29B/U	17-C-67730-4231	ADAPTER: straight, weatherproof, type N, 50 ohms; two female ends. Suitable for high temperature operation; max. temperature 200°; for general use.
UG-30/U	17-C-67730-5112	RF JACK: weatherproof, type N, 50 ohms; pressurized locking; for use w/ type N connectors. Replaced by UG-30C/U.
UG-30A/U		RF JACK: weatherproof, type N, 50 ohms; pressurized. Similar to UG-30/U except shorter in length and has polyglas insert. Replaced by UG-30C/U.
UG-30B/U	17-C-67732-2976	RF JACK: weatherproof, type N, 50 ohms; pressurized. Similar to UG-30/U except improved electrically and mechanically. Replaced by UG-30C/U.
UG-30C/U		ADAPTER: weatherproof, type N, 50 ohms; pressurized. Twin female ends.
UG-31/U	17-C-73117-4062	ADAPTER: weatherproof, couples, RG-14/U to 1 5/8" 50 ohm rigid line; pressure tested.
UG-32/U	17-C-71121-3054	RF COUPLING: (N to rigid line) weatherproof. Connects to 7/8" 50 ohm line UG-45/U including bullet and UG-46/U; supersedes NT-49261; similar to UG-33/U and UG-272/U except shaft of center cond bullet differs.
UG-33/U	17-C-71121-3817	RF COUPLING: (N to rigid line) weatherproof; supersedes NT-49263. Connects to 7/8" 70 ohm line.
UG-34/U	17-C-71422-3851	RF PLUG: weatherproof; pulse connector with ceramic insert; threaded for connection to UG-35/U; u/w RG-25, 26/U.
UG-35/U	17-C-73120-1509	RF RECEPTACLE: pulse connector with ceramic insert; u/w HV pulse; weatherproof, 3 3/8" length, 2 1/2" diameter; replaced by UG-350/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-36/U	17-C-71423-1871	RF PLUG: pulse connector with ceramic insert; weatherproof; u/w RG-27/U; m/w UG-37, 38, 158/U.
UG-37/U	17-C-73121-2686	RF RECEPTACLE: weatherproof; p/o Sig. C Spark Gap GA-9-A and Sig. C RF Unit BC-1224-A.
UG-37A/U		RF RECEPTACLE: CANCELLED. Re-assigned UG-62/U.
UG-38/U	17-C-73121-3022	RF RECEPTACLE: weatherproof; replaced by UG-38A/U. Pulse connector with ceramic insert.
UG-38A/U	17-C-73121-4019	RF RECEPTACLE: same as UG-38/U except has a locking ring and suitable washers in lieu of solder sealing ceramic insert to metallic body. For general use. Weatherproof.
UG-39/U		COVER PLATE: for coupling waveguide; similar to UG-135/U except made of brass; m/w UG-40/U and UG-40A/U; u/w waveguide type RG-52/U.
UG-40/U	16-F-650511-106	CHOKE FLANGE: for coupling waveguide; u/w RG-52/U; p/o UG-6/U; pressurized for aircraft or light weight use; m/w UG-39/U; similar to UG-136/U except made of brass instead of aluminum; replaced by UG-40A/U.
UG-40A/U		CHOKE FLANGE: for coupling waveguide; u/w RG-52/U; m/w UG-39/U.
UG-41/U	16-F-650511-107	COVER FLANGE: CANCELLED. (p/o UG-5/U; u/w RG-51/U and UG-42/U; for aircraft or light weight use; for replacement use UG-51/U.)
UG-42/U	16-F-650511-161	CHOKE FLANGE: for coupling waveguide; p/o UG-5/U; u/w RG-51/U and UG-51/U; same as UG-137/U except made of brass instead of aluminum; replaced by UG-52A/U.
UG-43/U	17-C-73408-5001	MALE COUPLING: male fl coupling w/ bullet type cont for 1/2" stub supported coaxial line; u/w UG-44/U and RG-49/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-44/U	17-C-71108-2701	FEMALE COUPLING: for 1/2" stub supported coax line; weatherproof; u/w UG-43/U and RG-47/U.
UG-45/U	17-C-73411-8062	MALE COUPLING: for 7/8" stub line; u/w UG-46/U and RG-44/U; weatherproof.
UG-46/U	17-C-71111-3790	FEMALE COUPLING: for 7/8" stub line; u/w UG-45/U and RG-44/U; weatherproof.
UG-47/U	17-C-73416-8650	MALE COUPLING: for 1 1/4" stub line; u/w RG-45/U; weatherproof.
UG-48/U	17-C-71116-3551	FEMALE COUPLING: for 1 1/4" stub line; u/w UG-47/U and RG-45/U; weatherproof.
UG-49/U	17-C-73117-3681	MALE COUPLING: for 1 5/8" stub line; u/w UG-50/U and RG-46/U.
UG-50/U	17-C-71118-1001	FEMALE COUPLING: for 1 5/8" stub line; u/w UG-49/U and RG-46/U.
UG-51/U	16-F-650511-150	COVER FLANGE: m/w UG-52A/U; u/w RG-51/U; supersedes NT-49474.
UG-52A/U	16-F-650511-204	CHOKE COVER: waveguide choke fl fitting; u/w RG-51/U; m/w UG-51/U. Same as UG-52/U except 1/4 wave choke groove has been modified to offer improved performance over broader band of frequencies.
UG-53/U	16-F-650511-181	COVER FLANGE: waveguide choke coupling; m/w UG-54A/U; cont type; u/w RG-48/U.
UG-54/U		CHOKE COVER: m/w UG-53/U; cont type; u/w RG-48/U; replaced by UG-54A/U.
UG-54A/U		CHOKE FLANGE: waveguide; u/w RG-48/U; m/w UG-53/U.
UG-55/U	16-F-650511-119	COVER FLANGE: waveguide; non-cont expansion type; m/w UG-56/U; u/w RG-48/U.
UG-56/U	16-F-650511-157	CHOKE FLANGE: non-cont expansion type; m/w UG-55/U; u/w UG-55/U and RG-48/U.
UG-57/U	17-C-68244-2887	RF ADAPTER: type N, 50 ohm, weatherproof, similar to UG-29/U; replaced by UG-57B/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-57A/U	17-C-68241-3611	RF ADAPTER: type N, 50 ohm, weatherproof. Mated to type N receptacles; similar to UG-57/U except smaller and different insert matl. Replaced by UG-57B/U.
UG-57B/U	17-C-68241-3601	RF ADAPTER: weatherproof, type N, 50 ohm. Twin male ends.
UG-58/U	17-C-73108-5905	RF RECEPTACLE: weatherproof, type N, 50 ohm; supersedes NT-49470; replaced by UG-58A/U.
UG-58A/U	17-C-73108-5906	RF RECEPTACLE: weatherproof, type N, 50 ohm; similar to UG-58/U except suitable for high temperature operation; for general use; u/w UG-87, 115, 116/U.
UG-59/U	17-C-71419-1999	RF PLUG: weatherproof; m/w UG-60/U or UG-61/U; u/w RG-8/U; type HN, 50 ohm.
UG-59A/U	17-C-71418-8250	RF PLUG: weatherproof; type HN, 50 ohm; u/w RG-8, 9, 9A/U. May be used with RG-10/U by replacing cable clamp w/ MX-564A/U; same as UG-59/U except improved for high frequency use and cable clamping mechanism is better.
UG-59B/U	17-C-71418-8300	RF PLUG: type HN, 50 ohm; u/w RG-8, 9, 9A/U. Weatherproof.
UG-59C/U		RF PLUG: weatherproof, use armor clamp MX-564A/U with cable RG-10/U; u/w RG-8, 9, 9A/U, type HN, 50 ohm.
UG-60/U	17-C-71118-3392	RF JACK: weatherproof, type HN, 50 ohm; u/w RG-8, 9, 9A/U and 10/U; m/w UG-59/U; same as UG-61/U except has no mtg plate.
UG-60A/U	17-C-71118-3402	RF JACK: type HN, 50 ohm, weatherproof; u/w RG-8, 9, 9A/U. Use armor clamp MX-564A/U with cable RG-10/U. Same as UG-60/U except improved for higher freq; used same as UG-61/U except has no mtg plate.
UG-60C/U		RF JACK: improved version of UG-60A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-61/U	17-C-73109-9409	RF JACK: type HN, 50 ohm, weatherproof; u/w RG-8, 9, 9A, 10/U; same as UG-60/U except has a mtg plate.
UG-61A/U	17-C-73117-5618	RF JACK: type HN, 50 ohm, weatherproof; u/w RG-8, 9, 9A/U and 10/U; use armor clamp MX-564A/U with cable RG-10/U; same as UG-61/U except improved electrically and mechanically; same as UG-60A/U except has a mtg plate.
UG-61C/U		RF JACK: improved version of UG-61A/U with teflon outer jacket.
UG-62/U	17-C-73118-6373	RF RECEPTACLE: pulse connector with ceramic insert; for HV pulse cable, air to air operation, weatherproof; u/w RG-25, 26/U and UG-24/U; similar to but not interchangeable with UG-37/U. Replaced by UG-37A/U.
UG-63/U	17-C-73115-9745	RF RECEPTACLE: pulse connector with ceramic insert, weatherproof, for HV pulse cable, air to air operation; u/w RG-25, 26/U and UG-34/U; similar to but not interchangeable with UG-38/U. Replaced by UG-38A/U.
UG-64/APR		ADAPTER: special assembly.
UG-65/U	16-F-650511-105	CONNECTOR: m/w UG-66/U; u/w RG-48/U; supersedes NT-49481.
UG-66/U	16-F-650511-109	CONNECTOR: m/w UG-65/U; u/w RG-48/U; supersedes NT-49481.
UG-67/U	16-E-17132-3669	ELBOW: 6 3/4" radius E-bend (90°); u/w RG-48/U. UG-66/U attached at each end.
UG-68/U	16-E-17150-1321	ELBOW: 7 1/2" radius, 90° H-bend; u/w waveguide type RG-48/U; weatherproof. Attaches to UG-66/U at each end.
UG-69/U	16-E-17125-9126	ELBOW: 2 3/4" radius, 90° E-bend; u/w RG-48/U. Replaced by UG-69A/U.
UG-69A/U	16-E-17125-9141	ELBOW: 3 3/4" radius, 90° E-bend; u/w RG-48/U. Attaches to UG-66/U at each end. Interchangeable with UG-69/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-70/U	16-E-17143-7848	ELBOW: 3 1/2" radius, 90° H-bend; u/w RG-48/U; terminated at each end w/ UG-65/U coupled to UG-66/U.
UG-70A/U	16-E-17143-7863	ELBOW: 4 1/2" radius, 90° E-bend; u/w RG-48/U, includes UG-66/U at each end.
UG-71/U	17-C-71121-5001	CONNECTOR: high voltage; u/w RG-17, 18/U. Replaced by UG-192/U; connects to 1 5/8", 50 ohms, rigid line.
UG-72/GR		SPECIAL ADAPTER.
UG-73/U	17-C-71413-4718	RF PLUG: type UHF; u/w RG-59/U, non-weatherproof.
UG-74/U	17-C-71121-5501	CONNECTOR: connects RG-17/U or RG-18/U to 1 5/8" rigid transmission line.
UG-75/U	17-C-67449-7651	ADAPTER: makes right angle connection between RG-17/U or RG-18/U and 1 5/8" rigid transmission line.
UG-76/TSM-1		SPECIAL ADAPTER.
UG-77/TSM-2		SPECIAL ADAPTER.
UG-78/AP		SPECIAL ADAPTER.
UG-79/U	16-A-15630-8261	ADAPTER: type N plug to RG-52/U waveguide.
UG-80/U	16-A-23031-7601	ADAPTER: adapts section of RG-51/U to a section of RG-52/U.
UG-81/U	16-A-15630-8221	ADAPTER: coaxial waveguide adapter, type N, used to adapt UG-21/U to RG-52/U.
UG-82/U	17-C-73420-6900	MALE COUPLING: for termination of 1 5/8" rigid coaxial line.
UG-83/U	17-C-67991-3690	ADAPTER: adapts UHF to type N; weatherproof; m/w type N male and type UHF 49194 or equivalent.
UG-84/GR		SPECIAL ADAPTER.
UG-85/U	17-C-71414-2794	RF PLUG: weatherproof, type BN; u/w RG-55, 58, 59, 62, 71/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-86/U	17-C-73110-8153	RF RECEPTACLE: type BN, pressurized, weatherproof; u/w RG-55, 58, 59, 62, 71/U. Requires hood MX-195/U for cables RG-55, 58/U and hood MX-367/U for cables RG-59, 62, 71/U.
UG-87/U	17-C-73108-1252	RF RECEPTACLE: weatherproof, non-pressurized, type BN, requires hood MX-195/U for cables RG-55, 58/U and hood MX-367/U for cables RG-59, 62, 71/U; u/w RG-55, 58, 59, 62, 71/U.
UG-88/U	17-C-71408-5333	RF PLUG: weatherproof, quick disconnect, type BNC, u/w RG-55, 58, 58A/U.
UG-88A/U	17-C-71408-3521	RF PLUG: weatherproof, quick disconnect, type BNC, u/w RG-58, 58A, 58B, 58C/U. Same as UG-88/U except that coupling is not knurled.
UG-89/U	17-C-71108-5314	RF JACK: weatherproof, type BNC; u/w RG-55, 58, 58A/U.
UG-90/U	17-C-73108-2545	RF JACK: weatherproof, type BNC; u/w RG-58/U; replaced by UG-291/U; quick disconnect.
UG-91/U	17-C-71417-3499	RF PLUG: weatherproof, type N, 70 ohm; u/w RG-6/U. Replaced by UG-91A/U.
UG-91A/U	17-C-17415-1906	RF PLUG: weatherproof, type N, 70 ohm; u/w RG-6/U; improved version of UG-91/U.
UG-92/U	17-C-71115-9070	RF JACK: weatherproof, type N, 70 ohm; u/w RG-6/U. Replaced by UG-92A/U.
UG-92A/U	17-C-71115-3379	RF JACK: weatherproof, type N, 70 ohm; u/w RG-6/U; improved version of UG-92/U.
UG-93/U	17-C-73115-6490	RF JACK: weatherproof, type N, 70 ohm; u/w RG-6/U; replaced by UG-93A/U.
UG-93A/U	17-C-73108-6078	RF JACK: weatherproof, type N, 70 ohm; u/w RG-6/U; improved version of UG-93/U.
UG-94/U	17-C-71417-3507	RF PLUG: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U; replaced by UG-94A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-94A/U	17-C-71415-1902	RF PLUG: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U.
UG-95/U	17-C-73116-5550	RF JACK: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U; replaced by UG-95A/U.
UG-95A/U	17-C-71115-3390	RF JACK: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U; improved version of UG-95/U.
UG-96/U	17-C-73116-1501	RF JACK: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U; replaced by UG-96A/U.
UG-96A/U	17-C-73108-6085	RF JACK: weatherproof, type N, 70 ohm; u/w RG-11, 12, 13/U; improved version of UG-96/U.
UG-97/U		ADAPTER: right angle, weatherproof, type LN, 50 ohm; replaced by UG-97A/U.
UG-97A/U	17-C-67445-2056	RF ADAPTER: right angle, weatherproof, type LN, 50 ohm. Similar to UG-97/U except mechanically designed for high temperature operation.
UG-98/U		RF RECEPTACLE: weatherproof, type LN, 50 ohm; replaced by UG-98A/U.
UG-98A/U	17-C-73110-8750	RF RECEPTACLE: weatherproof, type LN, 50 ohm; improved version of UG-98/U.
UG-99/PPN-2		SPECIAL ADAPTER.
UG-100/U		RF PLUG: weatherproof, type LN, 50 ohm; replaced by UG-100A/U; u/w RG-14, 74/U.
UG-100A/U	17-C-71417-3655	RF PLUG: weatherproof, type LN, 50 ohm; u/w RG-14, 74/U.
UG-101/U	17-C-73111-1745	RF JACK: weatherproof, type LN, 50 ohm; u/w RG-14, 74/U. Replaced by UG-101A/U.
UG-101A/U	17-C-73110-8760	RF PLUG: weatherproof, type LN, 50 ohm; improved version of UG-100/U; u/w RG-14, 74/U.
UG-102/U	17-C-71435-7292	RF PLUG: non-weatherproof, type UHF; u/w RG-22/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-103/U	17-C-73127-5741	RF RECEPTACLE: non-weatherproof, type UHF; u/w RG-22/U, 22A/U.
UG-104/U	17-C-67460-2909	RF ADAPTER: right angle, non-weatherproof, type UHF.
UG-105/U	17-C-67757-9696	RF ADAPTER: non-weatherproof, type UHF, twin female ends.
UG-106/U	17-S-250051-154	RF HOOD: u/w RG-8, 9, 9A, 10, 11, 12, 13, 63, 65/U.
UG-107/U	17-C-68723-6004	RF ADAPTER: tee, type N, 50 ohm; weatherproof; replaced by UG-107B/U.
UG-107A/U	17-C-68722-6624	RF ADAPTER: tee, weatherproof, similar electrically to UG-107/U except smaller in size and different insert matl; type N, 50 ohm; replaced by UG-107B/U.
UG-107B/U	17-C-68722-4397	RF ADAPTER: tee, weatherproof, type N, 50 ohm; similar to UG-107A/U except suitable for high temperature operation; for general use; one male, two female ends.
UG-108/U		ADAPTER: adapts type N to type LN, weatherproof; superseded by UG-108A/U.
UG-108A/U	17-C-67990-1603	RF ADAPTER: weatherproof; similar to UG-108/U except improved and suitable for high temperature operation; m/w type N male and type LN male.
UG-109/U		RF ADAPTER: weatherproof, type LN, 50 ohm; replaced by UG-109A/U.
UG-109A/U	17-C-67729-2121	RF ADAPTER: weatherproof, type LN, 50 ohm; twin female ends; similar to UG-109/U except improved and suitable for high temperature operation.
UG-110/U	17-C-67994-3440	RF ADAPTER: non-weatherproof, type SKL, which connects type N female plug to a CS (Sperry) klystron type fitting.
UG-111/U	17-C-71414-5363	RF PLUG: type UHF, non-weatherproof; u/w cable RG-59/U.
UG-112/AP		SPECIAL ADAPTER.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-113/AP		SPECIAL ADAPTER.
UG-114/U	17-C-73113-5835	RF JACK: weatherproof, type BN; u/w RG-55, 58, 59, 62, 71/U.
UG-115/U	17-C-71113-7732	RF JACK: weatherproof, type BN; u/w RG-55, 58, 59, 62, 71/U.
UG-116/U	16-F-650511-108	RF COUPLING: cover type; u/w RG-53, 66/U; m/w UG-117/U.
UG-117/U	16-F-650511-153	RF COUPLING: choke type; u/w RG-53, 66/U; m/w UG-116/U.
UG-118/TPT-1		SPECIAL ADAPTER.
UG-119/UP		CRYSTAL ADAPTER: connects type N to type UHF.
UG-120/U	16-E-16807-1007	RF COUPLING: 90° E-bend elbow for RG-52/U waveguide.
UG-121/U	16-E-16816-9420	RF COUPLING: 90° H-bend elbow for RG-52/U waveguide.
UG-122/U		SPECIAL RF COUPLING.
UG-123/U		SPECIAL RF ADAPTER.
UG-124/U		RF ADAPTER: type UHF to type AN-3100-14S-4B.
UG-125/U		RF ADAPTER: type AN-3100-14S-4B to British 104-701.
UG-126/U		RF ADAPTER: type (GE) F-27J764 receptacle to AN-3108-22-148 plug.
UG-127/U		RF ADAPTER: type (GE) couples on CG type K-27J764 receptacle to NAF 68925-1 plug.
UG-128/U	17-C-67749-4801	ADAPTER: adapts Army-Navy aeronautical type AN-3110-14S-1P receptacle to special BTL plug.
UG-129/U	17-C-67990-9766	ADAPTER: type N plug to special BTL plug.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-130/U	17-C-67990-9666	ADAPTER: type UHF receptacle to special BTL plug.
UG-131/U		ADAPTER: non-weatherproof; type SKL couples to type N male.
UG-132/U		CANCELLED (Same as UG-178/AP)
UG-133/U	16-E-16890-8873	ELBOW: H-plane bend, 90° waveguide; u/w RG-51/U.
UG-134/U		ELBOW: 2 1/16" radius 90° E-bend; u/w RG-51/U; m/w UG-51/U and UG-52A/U.
UG-135/U	16-F-650511-120	COVER PLATE: waveguide coupling for aluminum guide; u/w RG-67/U; m/w UG-136A/U; pressurized.
UG-136/U	16-F-650511-159	CHOKE: waveguide coupling for aluminum guide; u/w RG-67/U; m/w UG-135/U; similar to UG-50/U except made of aluminum. Replaced by UG-136A/U.
UG-136A/U		CHOKE: waveguide coupling for aluminum guide; u/w RG-67/U; m/w UG-135/U.
UG-137/U	16-F-650511-158	CHOKE: waveguide coupling for aluminum guide; u/w RG-68/U; m/w UG-138/U; similar to UG-52/U except made of aluminum.
UG-137A/U	16-F-650511-198	CHOKE: waveguide coupling for aluminum guide; u/w RG-68/U; m/w UG-138/U; improved version of UG-137/U.
UG-138/U	16-F-650511-131	COVER PLATE: waveguide coupling for aluminum guide; u/w RG-68/U; m/w UG-137A/U; similar to UG-51/U except made of aluminum.
UG-139/TPT-1		ADAPTER: adapts a type N receptacle to four type N receptacles.
UG-140/U	17-C-73409-6703	MALE COUPLING: weatherproof; u/w RG-76/U; for 5/8" rigid coaxial line.
UG-141/U	17-C-71109-3501	FEMALE COUPLING: weatherproof; u/w RG-76/U; for 5/8" rigid coaxial line.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-142/U	16-E-16891-9148	ELBOW: 1 13/16" radius; 90° E-bend; u/w RG-51/U; terminated at each end by a UG-51/U and a UG-52A/U.
UG-143/U	16-E-16876-3059	ELBOW: 2 1/16" radius; 90° H-bend; u/w RG-51/U; terminated at each end by a UG-52A/U and a UG-51/U.
UG-144/AP	16-E-650511-186	SPECIAL COUPLING ADAPTER: used between two UG-40/U choke flanges.
UG-145/AP		SPECIAL COUPLING ADAPTER: converts choke flange into flange coupling cover; used between two UG-42/U choke flanges.
UG-146/U	17-C-67991-3571	ADAPTER: non-weatherproof; couples a type N female and a UHF 49190 or equivalent
UG-147/U		ADAPTER: right angle, rotary joint type.
UG-148/U	16-F-650511-160	CHOKE: waveguide coupling; u/w RG-49/U. Replaced by UG-148B/U.
UG-148A/U	16-F-650511-101	CHOKE: waveguide coupling; u/w RG-49/U; replaced by UG-148B/U.
UG-148B/U		CHOKE: waveguide flange; u/w RG-49/U; m/w UG-149A/U.
UG-149/U	16-F-650511-111	COVER PLATE: waveguide coupling; u/w RG-49/U; m/w UG-148/U; replaced by UG-149A/U.
UG-149A/U	16-F-650511-123	COVER PLATE: for general use; u/w RG-49/U; same as UG-149/U except has thinner walls; m/w UG-148B/U.
UG-150/U	16-F-650511-106	PLAIN FLANGE: waveguide coupling; u/w RG-50/U; m/w UG-150/U.
UG-151/TPS-3		ADAPTER: flexible to rigid coaxial line.
UG-152/U	16-A-23031-7501	ADAPTER: u/w RG-51, 52/U; includes UG-39/U and equivalent of UG-52/U.
UG-153/U		ADAPTER: u/w RG-51, 52/U; includes UG-40/U and equivalent of UG-51/U.
UG-154/U	17-C-71422-2137	PLUG: type LC, 50 ohm; weatherproof; u/w RG-17, 18/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-155/U	17-C-67732-8416	ADAPTER: type LC, 50 ohm, weather-proof; couples UG-154/U and UG-208/U; twin female ends.
UG-156/U	17-C-71422-4353	PLUG: type LC, 50 ohm, weatherproof; u/w RG-19, 20/U.
UG-157/U	17-C-67734-1209	ADAPTER: weatherproof, type LC, 50 ohm, twin female ends; couples two UG-156/U and UG-219/U.
UG-158/U	17-C-73121-6317	JACK: weatherproof; u/w RG-27/U. Pulse connector having ceramic insert.
UG-159/U	17-C-73115-8454	JACK: weatherproof, type N, 50 ohm; u/w RG-5, 21/U; replaced by UG-159A/U.
UG-159A/U	17-C-73113-3231	JACK: radio frequency type N, 50 ⁺ ohm, weatherproof; u/w/ RG-5, 5A, 21/U.
UG-160/U	17-C-73115-8494	JACK: type N, 50 ohm, weatherproof; u/w RG-8, 9, 10/U; replaced by UG-160A/U.
UG-160A/U	17-C-73416-3599	JACK: type N, 50 ohm, weatherproof; u/w RG-8, 9, 9A, 10/U; single round female cont.
UG-160B/U		JACK: u/w RG-8, 9, 9A, 10/U; weather-proof, type N, 50 ohm.
UG-161/U	17-A-27451-1052	CONNECTOR: high voltage, pressurized; adapts RG-19/U or RG-20/U to 3 1/8", 50 ohm, rigid air line w/ coupling; weather-proof.
UG-162/U	16-R-94218-9399	ROTARY COUPLING: weatherproof; u/w RG-17, 18/U; terminates in type LC female fitting at both ends; can be used with other cables by use of suitable adapters.
UG-163/U	17-F-65403-101	ADAPTER PLATE: connects UG-81/U to rigid coaxial line.
UG-164/U	16-F-650511-124	COVER FLANGE: waveguide coupling; u/w RG-48/U; m/w UG-165/U.
UG-165/U	16-F-650511-114	CHOKE FLANGE: waveguide coupling; u/w RG-48/U; m/w RG-164/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-166/U	17-C-73121-6315	JACK: weatherproof; u/w RG-28/U. Pulse connector having ceramic insert.
UG-167/U	17-C-71419-4088	PLUG: weatherproof; type N, 50 ohm; u/w RG-17, 18/U. Replaced by UG-167A/U.
UG-167A/U	17-C-71421-4680	PLUG: weatherproof; type N, 50 ohm; similar to UG-167/U except that it has improved cable clamping facilities.
UG-168/U	17-C-71423-3000	CONNECTOR: connects RG-17/U or RG-18/U to 1 5/8" rigid air line: pressurized; weatherproof; replaced by UG-192/U.
UG-169/U		PLUG: HV type; u/w RG-19, 20/U, weatherproof; type LC, 50 ohm; replaced by UG-156/U.
UG-170/U		ADAPTER: m/w two UG-169/U to couple two lengths of RG-19/U and RG-20/U; non-weatherproof; type LC, 50 ohm.
UG-171/U	17-C-68241-3582	ADAPTER: m/w UHF jack and British "Pye" type 10H-365.
UG-173/U	17-A-27451-1002	ADAPTER: non-weatherproof; type UHF; u/w RG-38, 39/U.
UG-174/U	17-C-71423-3022	PLUG: u/w RG-28, weatherproof; pulse connector with ceramic insert.
UG-175/U	17-A-27451-1003	ADAPTER: non-weatherproof; type UHF; u/w RG-58/U.
UG-176/U	17-A-27451-1004	ADAPTER: non-weatherproof; type UHF; u/w RG-59, 62, 71/U.
UG-177/U	17-C-945001-203	RF HOOD: non-weatherproof; type UHF; u/w RG-29, 55, 58/U.
UG-178/AP		ADAPTER: right angle.
UG-179/SP		ADAPTER: antenna to type N jack.
UG-180/U	17-C-71419-7515	PLUG: weatherproof; m/w UG-181/U or equal; u/w RG-77, 78/U; replaced by UG-180A/U. Pulse connector, rubber insert.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-180A/U	17-C-71422-4323	PLUG: pulse connector having rubber insert; weatherproof; u/w RG-64A, 77, 78, 88/U; improved version of UG-180/U.
UG-181/U	17-C-73120-4731	RECEPTACLE: weatherproof; u/w RG-64A, 77, 78, 88/U; replaced by UG-181A/U.
UG-181A/U	17-C-73120-4741	RECEPTACLE: pulse connector having rubber insert; weatherproof; u/w RG-64A, 77, 78, 88/U; improved version of UG-181/U.
UG-182/U	17-C-71121-2185	RECEPTACLE: pulse connector; weatherproof; u/w RG-64A, 77, 78, 88/U. Replaced by UG-182/U.
UG-182A/U	17-C-71121-4658	RECEPTACLE: pulse connector having rubber insert; weatherproof; u/w RG-64A, 77, 78, 88/U; improved version of UG-182/U.
UG-183/U	16-A-15630-8251	ADAPTER: used to adapt type N to RG-52/U waveguide.
UG-184/U		PLUG: pulse connector having rubber insert.
UG-185/U	17-C-73108-2028	RECEPTACLE: weatherproof; replaced by UG-290/U; type BNC connector.
UG-186/U		ADAPTER: adapts type N plug to RG-52/U waveguide.
UG-187/U		CLAMP: quick-acting for use with RG-44/U.
UG-188/U	17-C-71414-3631	PLUG: non-weatherproof; type N, 50 ohm; u/w RG-29, 55, 58/U; replaced by UG-536/U.
UG-189/U	17-C-73111-9726	RECEPTACLE; non-weatherproof, pulse connector; m/w UG-180/U; replaced by UG-264/U.
UG-190/U	17-C-73113-9999	ADAPTER: coax jack, for general use; adapts type N to 50 ohm coaxial air line.
UG-191/AP	17-C-73111-8569	RECEPTACLE: bulkhead; one round female coax cont, type N.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-192/U	17-C-67738-5621	CONNECTOR: connects pressurized RG-17/U or RG-18/U to 1 5/8" rigid line; weatherproof.
UG-193/U		PANEL JACK: pulse, rubber insert.
UG-194/U		PLUG: pulse, rubber insert.
UG-194A/U		PLUG: UG-194/U, improved.
UG-195/U		PANEL JACK: pulse, rubber insert.
UG-196/U		ADAPTER: tee, type UHF, non-weatherproof; one male, two female ends.
UG-197/U	17-C-67727-5486	ADAPTER: non-weatherproof; mates with UHF plug and British type 10H-588.
UG-198/U	17-C-73108-1270	RECEPTACLE: pressurized, type BN; u/w RG-55, 58, 59, 62, 71/U; weatherproof. Requires hood MX-195/U for cables RG-55, 58/U and hood MX-367/U for RG-59, 62, 71/U.
UG-199/APG -15		ADAPTER: connects CG-283/APG-15 to UG-24/U plug.
UG-200/U	16-F-650511-162	CHOKE FLANGE: pressurized waveguide coupling; u/w RG-48/U. Replaced by UG-200A/U.
UG-200A/U		CHOKE FLANGE: u/w RG-48/U; m/w UG-214/U; improved version of UG-200/U.
UG-201/U	17-C-67990-2447	ADAPTER: weatherproof; type N, female and type BNC, male.
UG-202/U	17-C-67304-7434	ADAPTER: right angle, panel mounting; type N, 50 ohm; weatherproof; twin female ends.
UG-203/U	17-C-71414-3649	PLUG: type UHF, non-weatherproof; u/w RG-55, 59, 62, 71/U; similar to NT-49195 except threaded cable and is reduced in size to fit smaller cables.
UG-204/U	17-C-71417-3523	PLUG: weatherproof; u/w RG-14, 74/U, type N, 50 ohm.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-204A/U	17-C-71417-3555	PLUG: weatherproof, type N, 50 ohm; u/w RG-14, 74/U; similar to UG-204/U except for improved cable clamping.
UG-205/AP		ADAPTER: tee type, special assembly.
UG-206/U	17-C-73108-4953	JACK: type BN, non-weatherproof; u/w RG-55, 58, 59, 62, 71/U. Having sleeve for coupling to UG-85/U.
UG-207/U	17-C-71422-9770	ADAPTER: high voltage, pressurized type; weatherproof; u/w RG-14/U; connects to RG-44/U stub line.
UG-208/U	17-C-67447-3333	ADAPTER: right angle, type LC, 50 ohm; weatherproof; replaced by UG-216/U; connects UG-155/U to UG-154/U.
UG-209/MPM -15		SPECIAL ASSEMBLY:
UG-210/U	16-F-650511-167	CHOKER FLANGE: waveguide coupling; u/w RG-53/U and RG-66/U; m/w UG-211/U.
UG-211/U	16-F-650511-127	COVER FLANGE: waveguide coupling; u/w RG-53, 66/U; m/w UG-210/U; weatherproof.
UG-212/U	17-C-67444-8642	ADAPTER: right angle, type HN, 50 ohm; replaced by UG-212A/U.
UG-212A/U	17-C-67444-8652	ADAPTER: right angle, type HN, 50 ohm; weatherproof; same as UG-212/U except improved for high voltage and has better electrical characteristics.
UG-213/U		ADAPTER: weatherproof; superseded by UG-213A/U; adapts a type N to LN.
UG-213A/U	17-C-67990-1803	ADAPTER: weatherproof; adapts UG-21B/U to UG-98/U or UG-101A/U or UG-531/U; similar to UG-213/U except improved and suitable for high temperature operation; m/w type N male and type LN female.
UG-214/U		COVER FLANGE: plain flange waveguide coupling; u/w RG-48/U; m/w UG-200A/U.
UG-215/U	17-C-67733-9946	ADAPTER: type LC, 50 ohm; weatherproof; twin female ends.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-216/U	17-C-67447-4042	ADAPTER: right angle; weatherproof; type LC, 50 ohm.
UG-217/U	17-C-67732-3151	ADAPTER: weatherproof; m/w type HN male and type LC, UG-154/U or equivalent.
UG-218/U	17-C-67446-1061	ADAPTER: right angle, weatherproof; m/w type LC, UG-215/U or equivalent and type HN male.
UG-219/U	17-C-67448-7230	ADAPTER: right angle, weatherproof; type LC connector, 50 ohm.
UG-220/U	17-C-67991-8864	ADAPTER: weatherproof, type LC, 50 ohm.
UG-221/U	17-C-67735-3891	ADAPTER: pulse connector; weatherproof; twin female ends.
UG-222/U	17-C-67738-5764	ADAPTER: pulse connector; weatherproof; twin female ends.
UG-223/U	17-C-73113-7896	RECEPTACLE: type UHF, non-weatherproof.
UG-224/U	17-C-67728-7317	ADAPTER: type UHF, twin female ends; non-weatherproof.
UG-225/FIPA -41		SPECIAL ADAPTER.
UG-226/U	16-R-94218-8589	ROTARY COUPLING: solid dielectric; single; weatherproof; u/w RG-17, 18/U. Terminates in type LC female fitting at both ends. Can be used with other cables by using suitable adapters.
UG-227/U		ROTARY JOINT: solid dielectric; duplex; u/w RG-8, 10, 19, 20/U; weatherproof; terminates in type LC and HN female fittings at both ends. Silicone liquid filled.
UG-228/U	17-C-71121-4662	RECEPTACLE: weatherproof; u/w RG-25A, 26A/U. Replaced by UG-182A/U.
UG-229/U	17-C-71121-1357	PLUG: pulse connector, weatherproof; u/w RG-25A, 26A/U. Replaced by UG-180A/U.
UG-230/U	17-C-73120-4751	RECEPTACLE: weatherproof; u/w RG-25A, 26A/U. Replaced by UG-181A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-231/U	17-C-73114-5237	RECEPTACLE: weatherproof, type N, 50 ohm; single cylindrical female contact.
UG-232/U		SPECIAL PLUG: couples to standard banana plug. One round concentric female contact.
UG-234/U	17-C-71120-9124	ADAPTER: (LC to rigid line) weatherproof; adapts RG-18/U to 7/8" diameter, 50 ohm bead line, pressurized.
UG-235/U	17-C-67993-5377	ADAPTER: adapts type UHF to Jones' Jack.
UG-236/U	17-C-70811-2332	PLUG: same as British "Pye" type right angle plug; non-weatherproof.
UG-239/U	17-C-945001-218	HOOD: non-weatherproof, type UHF; u/w RG-59/U.
UG-240/U	17-C-67732-8679	ADAPTER: weatherproof, type LC, 50 ohm; connects UG-154/U (undercut) to UG-156/U.
UG-241/U	17-C-67992-4693	ADAPTER: non-weatherproof; m/w type BN female and type UHF 49195 or equivalent.
UG-242/U	17-C-68722-3619	ADAPTER: tee; weatherproof; type BN; one male and two female ends.
UG-243/U	17-C-67444-1205	ADAPTER: right angle, weatherproof; type BN connector.
UG-244/U	17-C-67726-5632	ADAPTER: pressurized; weatherproof; twin female ends; type BN.
UG-245/U	17-C-71408-7897	PLUG: non-weatherproof, type BN; u/w RG-55, 58/U.
UG-246/U	17-C-73108-8849	JACK: non-weatherproof, type BN; u/w RG-55, 58/U; supersedes NT-49599.
UG-247/U	16-F-650511-135	COVER FLANGE: waveguide coupling; u/w RG-50/U; m/w UG-248/U.
UG-248/U	16-F-650511-163	CHOKE FLANGE: waveguide coupling; u/w RG-50/U; m/w UG-247/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-249/U	17-C-71107-8749	ADAPTER: - (HN to rigid line) weatherproof; pressurized; connects to 7/8" stub line RG-44/U.
UG-250/U	17-C-71120-8754	ADAPTER: pressurized, weatherproof (HN to rigid line); connects to 7/8" 50 ohm line.
UG-251/U	17-C-71120-8759	ADAPTER: (HN to rigid line) pressurized; weatherproof; connects to 7/8" 70 ohm line.
UG-252/U	17-C-67991-3606	ADAPTER: weatherproof; mates type HN, UG-59/U male and type LC, UG-215/U or equivalent.
UG-253/U	17-C-73112-2565	JACK: weatherproof; type BNC; u/w RG-55, 58, 58A/U; pressurized.
UG-254/U	17-C-73126-5139	JACK: pressurized; weatherproof; type BNC. Replaced by UG-254A/U.
UG-254A/U	17-C-73108-2905	RECEPTACLE CONNECTOR: pressurized; weatherproof; type BNC. Improved version of UG-254/U.
UG-255/U	17-C-67989-1323	ADAPTER: non-weatherproof; m/w type BNC female and type UHF 49190 or equivalent.
UG-256/U	17-C-71419-8201	ADAPTER: high voltage; pressurized; u/w RG-14/U; weatherproof. Connects to 7/8" 70 ohm line.
UG-257/U	17-C-71419-8221	ADAPTER: high voltage; pressurized; couples RG-14/U to 7/8" 50 ohm bead line; weatherproof.
UG-258/U	17-C-71121-7004	ADAPTER: weatherproof; high voltage; pressurized; connects RG-17/U or RG-18/U to 3 1/8" 50 ohm air line. Requires TL-323/U Spanner Wrench for installation.
UG-259/U	17-C-67729-2443	ADAPTER: weatherproof; connects type LC, UG-154/U or equivalent and type HN, UG-59/U male.
UG-260/U	17-C-71408-3425	PLUG: type BNC, weatherproof; u/w RG-59, 62, 71/U. Similar to UG-88/U except cable clamping portions are larger.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-261/U	17-C-71408-6782	JACK: weatherproof, type BNC; u/w RG-59, 62, 71/U. Similar to UG-89/U except cable clamping portions are larger.
UG-262/U	17-C-73108-7660	JACK: weatherproof, type BNC; u/w RG-59, 62, 71/U.
UG-263/U		JACK: pressurized, weatherproof; type N, 50 ohm. One round female contact.
UG-264/U	17-C-73111-9756	RECEPTACLE: pulse connector, weatherproof. One round female contact.
UG-265/U		ADAPTER: right angle, type N.
UG-266/U	17-C-73114-7192	RECEPTACLE: pressurized, non-weatherproof; u/w RG-8, 9, 11, 58, 59/U. Requires hood MX-539/U for cables RG-58, 59/U and hood MX-543/U for cables RG-8, 9, 11/U.
UG-267/U	17-F-650111-102	MALE COUPLING: for rigid coaxial line; u/w 15/16" line RG-80/U.
UG-268/U	17-F-650111-101	FEMALE COUPLING: for rigid coaxial line; u/w 15/16" line RG-80/U.
UG-270/U	17-C-67992-9989	ADAPTER: weatherproof; connects type LC, UG-154/U or equivalent and type N, UG-21/U male.
UG-271/U	17-C-67729-2433	ADAPTER: (mounting plate) weatherproof; connects type LC, UG-154/U or equivalent and type N, UG-21/U.
UG-272/U	17-C-71121-3012	ADAPTER: couples weatherproof type "N" connector to RG-44/U; pressurized, weatherproof; similar to UG-32/U and UG-33/U except shaft of center cond bullet differs in size.
UG-273/U	17-C-67988-5260	ADAPTER: non-weatherproof; couples type BNC male UG-88/u and type UHF receptacle NT-49194 or equivalent.
UG-274/U	17-C-68721-9579	ADAPTER: tee type, weatherproof, one round male contact, type BNC; twin female ends.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-275/U		PLUG: straight type, non-weatherproof. One round female contact coaxial; couples RG-5/U to CAY type 417A Klystron Tube. Same as NT-49270.
UG-276/U	17-C-70811-7245	PLUG: right angle, non-weatherproof. One female eccentric contact at each end; couples RG-5/U to Klystron tube.
UG-277/U		ADAPTER: for RG-5/U cable.
UG-278/U		PULSE: jack, rubber insert.
UG-279/U	17-C-73116-3515	JACK: weatherproof. One round female contact coaxial; u/w RG-14, 74/U, type LN, 50 ohm. Similar to UG-101/U except does not have mounting plate.
UG-280/U	17-C-74508-3307	RECEPTACLE: type N. One round female coax; weatherproof; u/w RG-14, 74/U. Same as UG-101/U except does not have mounting plate.
UG-281/U	17-C-73108-6006	JACK: type N, 50 ohm, weatherproof. One round female contact; u/w RG-58/U.
UG-282/U	17-C-71407-9959	ADAPTER: binding post type BNC; non-weatherproof; single male end.
UG-283/U		ELBOW: 90 degree H-bend for RG-48/U waveguide.
UG-284/U		ELBOW: 90 degree E-bend for RG-48/U waveguide.
UG-285/U	17-C-71112-5419	JACK: one round female contact; weatherproof; type N, 50 ohm; u/w RG-81/U. Replaced by UG-483/U.
UG-286/U	17-C-73119-5482	JACK: type LC, 50 ohm; u/w RG-82/U. One round female contact, weatherproof.
UG-287/U	17-C-67731-5697	ADAPTER: type LC, 50 ohm, twin female ends, weatherproof.
UG-288/U	17-C-71416-5885	PLUG: quick disconnect, non-weatherproof; u/w RG-8, 9, 10/U; u/w UG-289/U. One round male contact.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-289/U	17-C-67735-2031	ADAPTER: quick disconnect non-weatherproof; adapts UG-288/U to UG-21/U or equivalent; double ended female.
UG-290/U	17-C-73108-1267	RECEPTACLE: weatherproof, type BNC; u/w UG-88/U and UG-260/U; similar to UG-185/U except for size of flange and mounting holes.
UG-291/U	17-C-73108-1262	JACK: type BNC, weatherproof, quick disconnect. One round female contact; u/w RG-55, 58, 58A/U.
UG-292/U		ADAPTER: type N, right angle.
UG-293/U	17-C-67730-4271	JACK: pressurized, type LN, 50 ohm, weatherproof. Double ended female; m/w UG-100/U.
UG-294/U	17-C-67992-5251	ADAPTER: adapts NT-49195 plug to NT-49121 plug. One male and, one female end.
UG-295/U	17-C-71413-2105	PLUG: non-weatherproof. One round male contact; used to terminate RG-8/U and RG-10/U; m/w NT-49194 and UG-296/U. Type UHF.
UG-296/U	17-C-73109-1089	RECEPTACLE: non-weatherproof, type UHF, one round female contact; m/w UG-295/U and NT-49195; u/w RG-8, 9, 10, 11, 12, 13, 63, 65/U.
UG-297/U	17-C-67443-9616	ADAPTER: right angle, non-weatherproof, type UHF. One male end and one female end. Adapts UG-295/U to UG-296/U.
UG-298/U		ADAPTER: tee, type UHF. Twin female ends; one male end non-weatherproof. Connects two UG-295/U to a UG-296/U. Improved version of NT-49199.
UG-299/U	17-C-67726-8821	ADAPTER: type UHF, non-weatherproof. Double ended female; adapts two UG-295/U together; improved version of NT-49191.
UG-300/U	17-C-67731-6742	ADAPTER: type UHF, non-weatherproof. Twin female ends; connects two UG-295/U together through bulkhead.
UG-301/UP		CRYSTAL ADAPTER.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-302/U	16-S-32841-1003	ADAPTER: antenna to cable (test set TS-182/UP).
UG-303/U		PLUG: type N.
UG-304/U		PANEL JACK: type N.
UG-305/U		JACK: type N.
UG-306/U	17-C-67443-6230	ADAPTER: right angle, weatherproof, type BNC, quick disconnect.
UG-307/U	17-C-67726-9521	ADAPTER: panel mounting, non-weatherproof, type UHF. Double ended female.
UG-308/U	16-R-94218-7526	ROTARY JOINT: single, for use where RF transmission line goes through pedestal; u/w RG-8, 10/U. Terminates in type HN female fitting on one end and a special fitting on the other end.
UG-309/U	17-C-67990-1634	ADAPTER: weatherproof; m/w type BNC male, and type HN female.
UG-310/U		PLUG: type N.
UG-311/U		JACK: type N.
UG-312/U	17-C-71107-1101	ADAPTER: double ended female; connects RG-81/U to UG-59A/U; weatherproof, type HN, 50 ohm.
UG-313/U		ADAPTER: connects RG-81/U to 7/8" diam air dielectric rigid line; moisture proof.
UG-314/U		JACK: similar to UG-286/U double ended female; used to connect RG-82/U to UG-154/U or equivalent; weatherproof type LC, 50 ohm.
UG-315/U		ADAPTER: used to connect RG-82/U to 7/8" diam air dielectric rigid line; moisture proof.
UG-316/U	17-C-67732-8721	ADAPTER: connects RG-82/U and 1 5/8" air dielectric rigid line.
UG-318/U	17-C-68244-2406	ADAPTER: double-ended male; connects NT-49194 or equivalent and UG-22/U or equiv. Type N female and UHF 49194 or equiv.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-319/U	16-F-650511-117	MALE COUPLING: used to connect section of RG-69/U; m/w UG-320/U.
UG-320/U	16-F-650511-113	FEMALE COUPLING: used to connect section of RG-69/U; m/w UG-319/U.
UG-321/U	17-C-73408-7185	CONNECTOR: one round male coax contact; fungus and moisture proof; u/w NT-49194; supersedes NT-491530.
UG-322/U	16-F-650511-168	CHOKE FLANGE: used w/RG-69/U; m/w UG-323/U and UG-395/U.
UG-323/U	16-F-650511-141	WAVEGUIDE FLANGE: u/w RG-69/U; similar to UG-320/U except different size; m/w UG-322/U.
UG-326/TPM -7		ADAPTER: type N to RG-44/U stub supported coaxial line.
UG-327/U	17-C-68713-2346	ADAPTER: tee, weatherproof, m/w one type HN male and two type LC, UG-154/U or equivalent.
UG-328/U	16-E-17179-3359	ELBOW: 90 degree E-bend; 6 3/4" radius; u/w RG-69/U. Flanges not included.
UG-329/U	16-E-17179-7621	ELBOW: 90 degree E-bend; 6 3/4" radius; u/w RG-69/U; similar to UG-328/U except has mounting flanges and two pins, includes UG-319/U and UG-320/U.
UG-330/U	16-E-17185-4404	ELBOW: 90 degree H-bend; 8 3/8" radius; u/w RG-69/U; similar to UG-331/U except has no flanges.
UG-331/U	16-F-17185-4409	ELBOW: 90 degree H-bend; 8 3/8" radius; u/w RG-69/U w/RG-319/U at one end and UG-320/U at other end; similar to UG-330/U except has flanges and two pins.
UG-332/U	17-C-71416-5505	ADAPTER: male one end, binding post other end; adapts NT-49194 to make possible a wire connection, type UHF.
UG-333/U	17-C-71116-6049	CONNECTOR: one round female contact, type HN, 50 ohm. Same as UG-334/U less mounting plate; u/w RG-17, 18/U; weatherproof.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-334/U	17-C-73115-8769	CONNECTOR: type HN, 50 ohm; weatherproof; u/w RG-17, 18/U. One round female contact; same as UG-334/U less mounting plate.
UG-335/U	17-C-67987-7927	ADAPTER: weatherproof; adapts UG-21/U to UG-89/U; similar to UG-349/U except has mounting plate; m/w type N male and type BNC female.
UG-336/U		ADAPTER: pressurized, pulse connector; weatherproof. Replaced by UG-336A/U.
UG-336A/U		ADAPTER: pressurized, pulse connector; weatherproof.
UG-337/U		ADAPTER: connects RG-17/U or RG-18/U to 3 1/8" rigid air dielectric coax transmission line; similar to UG-181/U except does not require special tools.
UG-338/U		ADAPTER: one split sleeve male finger contact; connects RG-19/U or RG-20/U to 3 1/8" rigid air dielectric coax transmission line; similar to UG-161/U except does not require special tools.
UG-339/U	17-C-67737-7726	ADAPTER: adapts 1 5/8" to 3 1/8" air dielectric transmission line.
UG-340/U	16-A-15646-5701	ADAPTER: adapts RG-48/U to RG-8/U; terminated at one end by UG-66/U, other end terminated in modified UG-58/U.
UG-341/U	17-C-71421-8769	PLUG: one round male contact; quick plug-in type; p/o Navy model SR-3 and SR-6.
UG-342/U	17-C-70950-1814	PLUG: right angle, one round male contact; u/w RG-58/U; weatherproof; type BN.
UG-343/U	16-F-650511-166	CHOKE FLANGE: u/w RG-50/U, UG-344/U. Replaced by UG-343A/U.
UG-344/U	16-F-650511-118	COVER FLANGE: u/w RG-50/U and UG-343A/U.
UG-345/U	17-C-73120-1479	CONNECTOR: one coax female contact; similar to but not interchangeable w/ UG-35/U. Pulse, receptacle, type B; ceramic insert.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-346/U	16-R-94287-2801	ROTARY COUPLER: connects two sections of RG-52/U to enable antenna rotation.
UG-347/U		MALE RECEPTACLE: one male coax contact; m/w UG-348/U to provide quick disconnect feature; non-weatherproof.
UG-348/U		FEMALE RECEPTACLE: non-weatherproof; one female coax contact; quick disconnect m/w UG-347/U.
UG-349/U	17-C-67991-2929	ADAPTER: one male coax, round, adapts UG-21/U to UG-89/U; similar to UG-335/U except w/o mounting plate. Type N male and type BNC female.
UG-350/U	17-C-73119-1401	FEMALE RECEPTACLE: one round female contact; u/w UG-34/U or equivalent.
UG-351/U		ROTARY COUPLER: capacity type rotating joint coupling CG-31/MPN-1 to search antenna feed line of AN/MPN-3; u/w 7/8" line.
UG-352/U		RECEPTACLE: one centrally located female contact; weatherproof; u/w UG-154/U.
UG-352A/U	17-C-73115-8789	CONNECTOR RECEPTACLE: weatherproof, type LC, 50 ohm; one round female contact; radio frequency type.
UG-353/U		ELBOW: 45 degree elbow for RG-69/U; c/o RG-69/U and UG-320/U on other end; 45 degree E plane bend.
UG-354/U		ELBOW: 45 degree elbow for RG-69/U; c/o RG-319/U on one end and UG-320/U on other end; 45 degree H plane bend.
UG-355/U		ADAPTER CONNECTOR: twin female contact one end, one male contact other end; the female contacts m/w UG-18/U and the type N male contacts m/w 726C klystron tube.
UG-356/U		ADAPTER CONNECTOR: twin female contact one end, one male contact other end; the female contacts m/w UG-18/U and the male contact m/w 2K29 klystron tube.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-357/U	17-C-73110-6641	RECEPTACLE: type UHF, female, one round contact; non-weatherproof; straight type; u/w RG-34/U.
UG-358/U	17-C-71415-6672	PLUG CONNECTOR: type UHF; non-weatherproof; one round male contact; u/w RG-34/U, similar cable.
UG-359/U	17-C-67445-1956	ADAPTER CONNECTOR: type UHF; right angle male one end, female other end; non-weatherproof.
UG-360/U	17-C-67727-6286	ADAPTER CONNECTOR: type UHF, non-weatherproof; female each end; one round contact; straight type; for mating two cables w/male couplings.
UG-361/U		ADAPTER: antenna lead to coaxial socket.
UG-362/U	17-C-73108-1260	RECEPTACLE CONNECTOR: one round slotted contact; type BNC, water resistant; similar to UG-290/U except solder lug term shortened. Replaced by UG-290/U.
UG-363/U	17-C-67731-6722	ADAPTER CONNECTOR: type UHF; non-weatherproof, double ended female; one round contact; straight type; mates w/ NT-49195 at each end.
UG-364/U	17-C-73108-2540	RECEPTACLE CONNECTOR: weatherproof; female; one round contact; straight type; type BNC. Replaced by UG-290/U.
UG-365/U	17-C-73108-2579	RECEPTACLE CONNECTOR: one round slotted contact; weatherproof; type BNC; similar to UG-185/U except turret type termination shorter. Replaced by UG-290/U.
UG-366/U	17-S-250051-143	HOOD: type UHF; non-weatherproof; shield which fastens to back of UG-103/U; same as UG-177/U except cable hole is enlarged to accomodate RG-59/U; u/w RG-59/U.
UG-367/U	17-S-73110-3924	RECEPTACLE CONNECTOR: type N; 50 ohm; weatherproof, female, one round contact; u/w UG-21/U or similar type connectors; similar to UG-58/U except leakage path increased.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-368/U	16-F-650511-129	MALE COUPLER: used to connect section of NT-14ACM waveguide with UG-369/U by means of two positioning pins.
UG-369/U	16-F-650511-147	FEMALE COUPLER: used to connect section of NT-14ACM waveguide with UG-368/U by means of two positioning pins.
UG-370/U		ADAPTER: pressurized (N to rigid line); weatherproof; connects to 3/8" line.
UG-371/U		ADAPTER: (N to rigid line) pressurized; weatherproof; connects to 3/8" line.
UG-372/U	17-S-250051-141	HOOD: used to cover and shield rear receptacle; similar to UG-106/U except for addition of two 1/2" diam holes opposite each other, perpendicular to slope.
UG-373/U		ELBOW: 2 1/8" radius, H-bend (60°); u/w waveguide type RG-51/U. Includes UG-51/U and UG-52A/U.
UG-374A/U		ELBOW: 1 13/16" radius, E-bend (45°); u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-375/U		ELBOW: 1 13/16" radius, E-bend (60°); u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-376A/U		ELBOW: 2 1/8" radius, H-bend (90°); u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-377/U	17-C-73409-8500	RECEPTACLE CONNECTOR: type BN, non-weatherproof. One round male contact.
UG-378A/U		ELBOW: 1 13/16" radius, E-bend (90°); u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-379/U		ELBOW: 2 1/8" radius, H-bend (90°) with 2 7/8" ext on one side; u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-380/U		ELBOW: 1 13/16" radius, E-bend (90°) with 3 13/16" extension on one side; u/w RG-51/U. Includes UG-51/U and UG-52A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-381/U	16-F-650511-121	FLANGE: fitting for RG-96/U; m/w UG-381/U.
UG-382/U		FLANGE: CANCELLED. Same as UG-381/U.
UG-383/U	16-F-650511-122	FLANGE: fitting for RG-97/U; m/w UG-383/U.
UG-384/U		FLANGE: CANCELLED. Same as UG-383/U.
UG-385/U	16-F-650511-134	FLANGE: fitting for RG-98/U; m/w UG-385/U.
UG-386/U		FLANGE: CANCELLED. Same as UG-385/U.
UG-387/U	16-F-650511-164	FLANGE: u/w RG-99/U; m/w UG-387/U, round.
UG-388/U		FLANGE: CANCELLED. Same as UG-387/U.
UG-389A/U		ELBOW: 2 1/8" radius H-bend (45°); u/w RG-51/U. Includes UG-51/U and UG-52A/U.
UG-390/U	17-C-73113-2454	RECEPTACLE CONNECTOR: type LC; one round female contact; accepts adapter MX-845/U; p/o rotary switch.
UG-391/U	17-C-73116-3748	RECEPTACLE CONNECTOR: one round female contact; accepts MX-845/U; dimensions differ from UG-390/U. Special part of rotary switch.
UG-392/U	17-C-73108-2556	RECEPTACLE CONNECTOR: type N, p/o rotary switch; one round female contact; accepts UG-21/U.
UG-393/U	17-C-73109-2700	RECEPTACLE CONNECTOR: type N, p/o rotary switch; one round female contact; accepts UG-154/U.
UG-394/U	17-C-73109-2675	RECEPTACLE CONNECTOR: type N, p/o rotary switch; one round female contact; accepts UG-154/U; dimensions differ from UG-393/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-395/U	16-F-650511-165	WAVEGUIDE FLANGE: u/w NT-14ACM; similar to UG-323/U except larger in diam and has smaller opening for waveguide; u/w UG-322/U.
UG-396/U		CANCELLED.
UG-397/U		ADAPTER: waveguide to type N; u/w RG-51/U. Includes UG-51/U and type N female.
UG-398/U		ADAPTER: waveguide to type N; u/w RG-50/U. Includes UG-344/U and type N female.
UG-399/U		ADAPTER: waveguide to type N; u/w RG-49/U. Includes UG-149A/U and type N female.
UG-400/U		ADAPTER: waveguide to type N; u/w RG-48/U. Includes UG-53/U and type N female.
UG-403/U		ADAPTER: waveguide to 5/8" rigid coaxial line; u/w RG-50/U. Includes UG-141/U and UG-344/U.
UG-404/U		ADAPTER: waveguide to 5/8" rigid coaxial line; u/w RG-49/U. Includes UG-141/U and UG-149A/U.
UG-405/U		ADAPTER: waveguide to 7/8" rigid coaxial line; u/w RG-48/U. Includes UG-46/U and UG-53/U.
UG-406/U	16-F-650511-103	CHOKE FLANGE: u/w RG-95/U, UG-407/U; similar to UG-148/U except made of aluminum instead of brass. Replaced by UG-406A/U.
UG-406A/U		CHOKE FLANGE: u/w RG-95/U; m/w UG-407/U.
UG-407/U	16-F-650511-104	COVER PLATE: u/w RG-95/U; m/w RG-406A/U.
UG-408/U	16-E-17179-7853	ELBOW: 90 degree E-bend for RG-69/U waveguide.
UG-409/U	17-C-67993-5477	ADAPTER: connects RG-81/U to RG-82/U cable, for underwater use.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-410/U	17-A-27451-1007	ADAPTER CONNECTOR: non-weatherproof; u/w cable RG-48/U.
UG-411/U	17-C-73285-6047	RECEPTACLE CONNECTOR: female; m/w UG-412/U.
UG-412/U	17-C-73569-9222	RECEPTACLE CONNECTOR: male; m/w UG-411/U.
UG-413/U	17-C-68712-1484	PLUG CONNECTOR: tee; type HN; 50 ohm connector; weatherproof; three female ends.
UG-414/U		ADAPTER: type BNC; weatherproof; twin female ends.
UG-415/U		PLUG: (quick disconnect) u/w RG-59/U; non-weatherproof; u/w UG-416/U.
UG-416/U		JACK: (quick disconnect) u/w RG-59/U; non-weatherproof; mates with UG-415/U.
UG-417/U	16-F-650511-196	WAVEGUIDE FLANGE: u/w RG-69/U. Replaced by UG-417A/U.
UG-417A/U		WAVEGUIDE FLANGE: u/w RG-69/U. Mates with UG-417A/U.
UG-418/U	16-F-650511-197	WAVEGUIDE FLANGE: u/w RG-103/U. Replaced by UG-418A/U.
UG-418A/U		WAVEGUIDE FLANGE: u/w RG-103/U; m/w UG-418A/U.
UG-419/U	16-F-650511-188	WAVEGUIDE COVER FLANGE: u/w RG-91/U, RG-107/U; similar to UG-420/U except includes mounting screws; m/w UG-541/U.
UG-420/U	16-F-650511-201	WAVEGUIDE FLANGE: u/w RG-91/U, RG-107/U; similar to UG-419/U except does not include mounting screws. Replaced by UG-419/U.
UG-421/U	17-C-71443-1001	PLUG CONNECTOR: termination for RG-22A/U, RG-22/U; type UHF; m/w UG-422/U or UG-423/U; weatherproof.
UG-422/U	17-C-73127-5745	RECEPTACLE CONNECTOR: weatherproof; type UHF; m/w UG-421/U; u/w RG-22, 22A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-423/U	17-C-73127-5753	JACK: weatherproof; type UHF; m/w UG-421/U; rear of connector accepts RG-22/U, RG-22A/U; u/w twisted twin conductor RF cable.
UG-424/U	17-C-71115-5675	PLUG CONNECTOR: special plug; one coax banana female contact.
UG-425/U	16-F-650511-199	WAVEGUIDE FLANGE: terminates RG-53/U and RG-66/U; m/w UG-425/U.
UG-427/U	17-C-73109-6750	RECEPTACLE CONNECTOR: type HN; weatherproof; u/w RG-8, 9, 9A, 10/U. Replaced by UG-61A/U.
UG-427A/U		RECEPTACLE CONNECTOR: weatherproof; u/w RG-8, 9, 9A, 10, 87A, 116/U. Uses armored clamp for armored cable.
UG-428/U		PLUG: type N.
UG-429/U	17-C-69175-9263	PHASER SECTION: terminates in UG-46/U at one end and UG-45/U at other end for line connection.
UG-430/U	16-P-31396-1101	PHASER SECTION: phase shifting section of one wavelength.
UG-431/U	16-P-31399-1351	PHASER SECTION: phase shifting section of 1 1/8 wavelength.
UG-432/U	16-P-31399-1576	PHASER SECTION: phase shifting section of 1 1/4 wavelength.
UG-433/U	16-P-31399-1891	PHASER SECTION: phase shifting section of 1 3/8 wavelength.
UG-434/U	16-F-650511-206	WAVEGUIDE FLANGE: for use w/RG-104/U; couples to UG-435/U; similar to UG-436/U except brass instead of aluminum.
UG-435/U	16-F-650511-202	WAVEGUIDE FLANGE: u/w RG-104/U; couples to UG-434/U; similar to UG-437/U except brass instead of aluminum. Replaced by UG-435A/U.
UG-435A/U		COVER FLANGE: u/w RG-104/U; m/w UG-435A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-436/U	16-F-650511-205	WAVEGUIDE FLANGE: u/w RG-105/U; couples to UG-437/U; similar to UG-434/U except aluminum instead of brass.
UG-437/U	16-F-650511-203	WAVEGUIDE FLANGE: u/w RG-105/U; couples to UG-436/U; similar to UG-435/U except aluminum instead of brass. Replaced by UG-437A/U.
UG-437A/U		WAVEGUIDE FLANGE: u/w RG-105/U; mates with UG-437A/U.
UG-438/U	16-F-650511-195	WAVEGUIDE FLANGE: u/w RG-75/U; couples to UG-439/U; similar to UG-200/U except aluminum instead of brass.
UG-438A/U		CHOKE FLANGE: u/w RG-75/U; m/w UG-439/U.
UG-439/U	16-F-650511-200	WAVEGUIDE FLANGE: u/w RG-75/U; couples to UG-438A/U; similar to UG-214/U except aluminum instead of brass.
UG-440/U	16-F-650511-193	CHOKE FLANGE: u/w RG-106/U; couples to UG-441/U; similar to UG-343/U except aluminum instead of brass. Replaced by UG-440A/U.
UG-440A/U		CHOKE FLANGE: u/w RG-106/U; m/w UG-441/U.
UG-441/U	16-F-650511-194	COVER FLANGE: u/w RG-106/U; couples to UG-440A/U; similar to UG-344/U except aluminum instead of brass.
UG-443/CRN-10		SPECIAL ADAPTER.
UG-444/CRN-10		SPECIAL ADAPTER.
UG-445/U		ADAPTER: waveguide to 5/8" rigid coaxial line; u/w RG-48/U. Includes UG-53/U and UG-140/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-446/U		ADAPTER: waveguide to type N; u/w RG-52/U. Includes UG-39/U and type N female.
UG-447/U	17-C-73108-1259	RECEPTACLE CONNECTOR: weather-proof; type BNC; one round female contact. Similar to UG-290/U except that mounting holes have been drilled out.
UG-448/U		SERIES: tee; u/w RG-48/U. Includes three UG-53/U.
UG-449/U		SHUNT: tee; u/w RG-48/U. Includes three UG-53/U.
UG-450/U		SERIES: tee; u/w RG-49/U. Includes three UG-149A/U.
UG-451/U		SHUNT: tee; (waveguide assembly); u/w RG-49/U. Includes three UG-149A/U.
UG-452/U		SERIES: tee; (waveguide assembly); u/w RG-49/U. Includes three UG-344/U.
UG-453/U		SHUNT: tee; (waveguide assembly); u/w RG-50/U. Includes three UG-344/U.
UG-454/U		SERIES: tee; (waveguide assembly); u/w RG-51/U. Includes three UG-51/U.
UG-455/U		SHUNT: tee; (waveguide assembly); u/w RG-51/U. Includes three UG-51/U.
UG-456/U		SERIES: tee; (waveguide assembly); u/w RG-52/U. Includes three UG-39/U.
UG-457/U		SHUNT: tee; (waveguide assembly); u/w RG-52/U. Includes three UG-39/U.
UG-458/U		SERIES: tee; (waveguide assembly); u/w RG-91, 107/U. Includes three UG-419/U.
UG-459/U		SHUNT: tee; (waveguide assembly); u/w RG-97, 107/U. Includes three UG-419/U.
UG-460/U		SERIES: tee; (waveguide assembly); u/w RG-53, 66/U. Includes three UG-425/U.
UG-461/U		SHUNT: tee; (waveguide assembly); u/w RG-53, 66/U. Includes three UG-425/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-462/U		SERIES: tee; (waveguide assembly); u/w RG-96/U. Includes three UG-381/U.
UG-463/U		SHUNT: tee; u/w RG-96/U. Includes three UG-381/U.
UG-464/U		ADAPTER: tee; weatherproof; type N, 50 ohm; two female ends at 90 degrees to one another; and one male end.
UG-465/U		COUPLING: tee; u/w RG-76/U for 5/8" rigid coaxial line. Includes three UG-140/U.
UG-466/U		COUPLING: tee; u/w RG-44/U for 7/8" rigid coaxial line. Includes three UG-45/U.
UG-467/U		MAGIC: tee; u/w RG-75/U; m/w RG-585/U.
UG-468/U		MAGIC: tee; u/w RG-95/U; m/w UG-406/U.
UG-469/U		MAGIC: tee; u/w RG-106/U; m/w RG-440/U.
UG-470/U		MAGIC: tee; u/w RG-68/U; m/w RG-137A/U.
UG-471/U		MAGIC: tee; u/w RG-67/U; m/w RG-136A/U.
UG-472/U		MAGIC: tee; u/w RG-91, 107/U; m/w UG-541/U.
UG-473/U		MAGIC: tee; u/w RG-53, 66/U; m/w UG-425/U.
UG-474/U		MAGIC: tee; u/w RG-96/U; m/w UG-381/U.
UG-475/U	17-C-68713-9287	ADAPTER CONNECTOR: T shape; three female type HN connectors; UG-59A/U at each end; weatherproof; type HN, 50 ohm. Replaced by UG-413/U.
UG-476/U		CANCELLED: Use UG-415/U.
UG-477/U		ADAPTER: adapts single wire to coaxial socket.
UG-478/U	17-C-67738-7044	CABLE ADAPTER: provides pressure-proof connection between RG-81/U and RG-8/U or RG-10/U; weatherproof.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-479/U	17-C-67738-9963	CABLE ADAPTER: provides pressure-proof connection between RG-81/U and RG-17/U or RG-18/U; weatherproof.
UG-480/U	17-C-67737-6726	CABLE ADAPTER: weatherproof; provides pressure-proof connection between RG-81/U and RG-82/U.
UG-481/U	17-C-67738-7867	CABLE ADAPTER: weatherproof; provides pressure-proof connection between RG-82/U and RG-8/U or RG-10/U.
UG-482/U	17-C-67738-8117	CABLE ADAPTER: provides pressure-proof connection between RG-82/U and RG-17/U or RG-18/U; weatherproof.
UG-483/U	17-C-71110-7520	PLUG CONNECTOR: m/w JAN type N male plug; u/w RG-81/U; weatherproof; type N, 50 ohm.
UG-484/U	17-C-71113-8147	PLUG CONNECTOR: weatherproof, type N, 50 ohm; u/w RG-82/U.
UG-485/U		WAVEGUIDE ELBOW: 90 degree H bend; u/w RG-52/U.
UG-486/U	17-C-71411-2250	PLUG CONNECTOR: weatherproof; type N, 50 ohm; u/w RG-81/U.
UG-487/U	17-C-71414-3855	PLUG CONNECTOR: weatherproof; type N, 50 ohm; one round male coax contact; u/w RG-82/U.
UG-488/U		ADAPTER: to special antenna.
UG-490/U	16-A-15645-3401	COAXIAL TO WAVEGUIDE ADAPTER: one male coupling one end and mounting ring on other end; for adapting RG-44/U to RG-48/U.
UG-491/U	17-C-68239-9751	ADAPTER CONNECTOR: weatherproof; double ended male; connects two UG-89/U; each end m/w UG-89/U; type BNC.
UG-492/U	17-C-67728-7466	RECEPTACLE CONNECTOR: one round female coax contact each end; connects two UG-88/U; similar to UG-414/U except pressurized; weatherproof; type BNC.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-493/U	17-C-67759-1676	RECEPTACLE CONNECTOR: twin round coax contact each end; each end m/w UG-421/U; two female ends; weatherproof; type UHF.
UG-494/U	17-C-71417-3545	PLUG CONNECTOR: one round male coax contact; u/w RG-14/U; m/w UG-60A/U; u/w RG-14, 74/U; type HN, 50 ohm; weatherproof.
UG-495/U	17-C-71419-7885	PLUG CONNECTOR: one round male coax contact; u/w RG-17/U; m/w UG-60A/U; u/w RG-17, 18/U; type HN, 50 ohm; weatherproof.
UG-496/U	17-C-73109-6720	RECEPTACLE CONNECTOR: one round female coax contact; m/w UG-59A/U; weatherproof; type HN, 50 ohm.
UG-497/U	17-C-67993-6377	ADAPTER CONNECTOR: male one end; female other end; couples UG-215/U and UG-59A/U or equal; type HN male and type LC UG-215/U or equivalent.
UG-498/U	17-C-73410-7210	RECEPTACLE CONNECTOR: one round male contact; m/w UG-499/U; quick disconnect.
UG-499/U	17-C-73110-3948	RECEPTACLE CONNECTOR: one round female contact; m/w UG-498/U; quick disconnect.
UG-501/U	17-C-67737-1360	CABLE ADAPTER: coax cable adapter to provide pressure-proof connection between two RG-81/U; weatherproof.
UG-502/U	17-C-67738-1359	CABLE ADAPTER: weatherproof; coax cable adapter to provide a pressure-proof connection between two RG-82/U
UG-503/U	17-C-67738-9490	CABLE ADAPTER: coax cable adapter to provide a pressure-proof connection between RG-82/U and RG-17/U or RG-18/U; weatherproof.
UG-504/U	17-C-77737-5693	CABLE ADAPTER: coax cable adapter to provide a non-pressure-proof connection between RG-82/U and RG-17/U or RG-18/U; weatherproof.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-505/U	17-C-67740-1007	CABLE ADAPTER: coax cable adapter to provide pressure-proof connection between RG-17/U and RG-18/U; weatherproof.
UG-506/U	17-C-67738-9190	CABLE ADAPTER: coax cable adapter to provide pressure-proof connection between RG-8/U or RG-10/U and RG-10/U and RG-17/U or RG-18/U; weatherproof.
UG-507/U	17-C-67738-6694	CABLE ADAPTER: coax cable adapter to provide pressure-proof connection between RG-8/U or RG-10/U and RG-8/U or RG-10/U; weatherproof.
UG-508/U	17-C-67303-4486	ADAPTER CONNECTOR: female each end, mounting flange on one end; one round coax contact at each end; one end m/w UG-146/U other end mates fittings on 3/8" slotted line; 7/8" line to 3/8" coaxial transition.
UG-509/U	16-F-650511-189	WAVEGUIDE FLANGE: u/w RG-109/U; m/w UG-510/U.
UG-510/U	16-F-650511-192	WAVEGUIDE FLANGE: u/w RG-109/U; m/w UG-509/U.
UG-511/U	16-F-650511-191	WAVEGUIDE FLANGE: u/w RG-110/U; m/w UG-512/U.
UG-512/U	16-F-650511-190	WAVEGUIDE FLANGE: u/w RG-110/U; m/w UG-511/U.
UG-513/U		ADAPTER: crystal socket, p/o crystal test set TS-564()/U.
UG-514/U		ADAPTER: p/o audio oscillator TS-382A/U.
UG-516/U		ADAPTER: weatherproof; m/w type LN female and type N male.
UG-516A/U		ADAPTER: weatherproof; m/w type LN female and type N male.
UG-518/U		ADAPTER: pressurized; (N to rigid line); weatherproof; connects to 5/8" stub line.
UG-519/U		ADAPTER: (N to rigid line); weatherproof; connects to 7/8" stub line.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-520/U		ADAPTER: waveguide to 5/8" coaxial line; u/w RG-50/U. Includes UG-140/U and UG-344/U.
UG-521/U		ADAPTER: waveguide to 5/8" coaxial line; u/w RG-49/U. Includes UG-140/U and UG-149/U.
UG-522/U		ADAPTER: waveguide to 7/8" coaxial line; u/w RG-48/U. Includes UG-53/U and UG-45/U.
UG-523/U		ADAPTER: waveguide to 5/8" coaxial line; u/w RG-48/U. Includes UG-141/U and UG-53/U.
UG-524/U	17-C-73450-3636	RECEPTACLE CONNECTOR: two round male contacts sunk in block.
UG-525/U	16-C-12304-1330	RECEPTACLE CONNECTOR: one round coax contact; 50 ohms impedance, 8000 V peak.
UG-526/U	17-C-73413-3135	RECEPTACLE CONNECTOR: one round coax contact, male polarized; m/w UG-348/U or equal; similar to UG-347/U but w/narrow mounting base to fit in close location; quick disconnect; non-weatherproof
UG-527/U	17-C-71408-3590	PLUG CONNECTOR: one round male coax contact; u/w RG-100/U; similar to UG-260/U except for different dimension of pin; weatherproof; type BNC.
UG-528/U		ADAPTER: p/o Signal Generator SG-1/ARN.
UG-529/U		ADAPTER: p/o Signal Generator SG-1/ARN.
UG-530/U	17-C-71417-3528	PLUG CONNECTOR: one round coax contact, male; m/w UG-531/U or UG-101A/U or equal; similar to UG-100A/U except for use w/different diam cable; u/w RG-94, 119, 120/U; type LN, 50 ohms; weatherproof.
UG-531/U	17-C-73110-8770	RECEPTACLE CONNECTOR: one round coax contact female; m/w UG-530/U or UG-100A/U or equal; u/w RG-94/U, RG-119, 120/U; weatherproof; type LN, 50 ohm.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-532/U	17-C-71422-2600	PLUG CONNECTOR: m/w UG-533/U or equal; u/w RG-93/U; type LC, 50 ohms.
UG-533/U	17-C-67733-9976	ADAPTER CONNECTOR: used to connect two UG-532/U or equal; type LC, 50 ohms.
UG-534/U	17-C-67447-7636	ADAPTER CONNECTOR: weatherproof; type LC, 50 ohm; adapts UG-532/U to UG-533/U or equal.
UG-535/U	17-C-72811-2237	RECEPTACLE CONNECTOR: right angle; m/w UG-88/U or equal; weatherproof; type BNC.
UG-536/U	17-C-71414-1801	PLUG CONNECTOR: weatherproof; type N, 50 ohm; for use w/RG-55/U or RG-58/U; m/w UG-22B/U or equal; improved version of UG-188/U.
UG-537/U	17-C-67445-2006	ADAPTER CONNECTOR: male one end, female other end; male end m/w UG-422/U, other end m/w UG-421/U; non-weatherproof. Part of Radio test set AN/URM-6.
UG-538/U		ADAPTER CONNECTOR: female one end; other end support for coupling probe within waveguide; adapts coax cable to waveguide.
UG-539/U		ADAPTER: p/o standing wave meter TS-130A/UP.
UG-540/U		ADAPTER: p/o standing wave meter TS-130A/UP.
UG-541/U		CHOKE FLANGE: u/w RG-91, 107/U; m/w UG-419/U.
UG-542/U	17-C-67994-2440	RF ADAPTER: adapts a type "N" plug to a Sperry "Klystron" type SKL fitting.
UG-543/U	17-C-73108-3670	RECEPTACLE CONNECTOR: similar to UG-58/U except that mounting plate has been removed; p/o radio test set AN/URM-6.
UG-544/U	17-C-71440-4501	RECEPTACLE CONNECTOR: two round male contact; 95 ohms impedance; p/o radio test set AN/URM-6.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-545/U	17-C-68249-6621	ADAPTER CONNECTOR: double ended male; for use w/RG-17/U; adapts two of right angle jacks. Used on RF switch SA-191/SLT-1.
UG-546/U	17-C-72814-2101	PLUG CONNECTOR: accommodates RG-17/U at one end and UG-545/U at other end. Used on RF switch SA-191/SLT-1.
UG-547/U	16-A-15655-6517	CONNECTOR ADAPTER: right angle coupling between RG-69/U rectangular waveguide and rotary coupler.
UG-548/U	16-A-15655-9101	CONNECTOR ADAPTER: coupling between RG-69/U rectangular waveguide and coaxial. Right angle.
UG-549/U	16-R-94218-9651	ROTARY COUPLER: connects between rotary coupler and cable.
UG-550/U		ADAPTER: right angle; p/o radio set AN/MRC-2.
UG-552/U		ADAPTER: waveguide to type N; u/w RG-69/U. Includes UG-417/U and type N male.
UG-553/U		COVER FLANGE: u/w RG-112/U; m/w UG-553/U.
UG-554/U		COVER FLANGE: u/w RG-113/U; m/w RG-554/U.
UG-555/U		ADAPTER: tee; weatherproof; three female ends.
UG-556/U		JACK: weatherproof, type N, 50 ohm; u/w RG-58, 58A/U.
UG-557/U	17-C-71419-3601	PLUG CONNECTOR: weatherproof, type N, 50 ohm; u/w RG-117, 118/U. One male coaxial contact; m/w UG-22B or equal.
UG-558/U	17-A-27451-1050	PLUG CONNECTOR: uses center conductor of cable as male contact.
UG-559/U		ADAPTER: weatherproof; m/w type BNC female and type HN male.
UG-560/U	17-C-73109-9401	RECEPTACLE CONNECTOR: weatherproof, type HN, 50 ohm.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-564/U		ADAPTER: weatherproof; m/w type C male and type N female.
UG-565/U		ADAPTER: weatherproof; m/w type C female and type N male.
UG-566/U		ADAPTER: tee type; weatherproof; one male, two female ends; type C, 50 ohm.
UG-567/U		ADAPTER: right angle; weatherproof; type C, 50 ohm.
UG-568/U		RECEPTACLE: weatherproof; type C, 50 ohm.
UG-569/U		RECEPTACLE: weatherproof; type C, 50 ohm.
UG-570/U		JACK: weatherproof; u/w RG-8, 9, 9A, 10/U; type C, 50 ohm. Includes MX-1286/U armor clamp when used with UG-937/U.
UG-571/U		JACK: weatherproof, type C, 50 ohm; u/w RG-8, 9, 9A, 10/U. Includes MX-1286/U armor clamp when used with UG-938/U.
UG-572/U		JACK: weatherproof, type C, 50 ohm; u/w RG-8, 9, 9A, 10/U. Includes MX-1286/U armor clamp when used with UG-944/U.
UG-573/U		PLUG: weatherproof, type C, 50 ohm; u/w RG-8, 9, 9A, 10/U. Includes MX-1286/U when used with UG-943/U.
UG-574/U		PLUG: Special type used with type N series.
UG-575/U		RECEPTACLE: special, for use with type N series.
UG-576/U		COAXIAL WAVEGUIDE ADAPTER: adapts coaxial line to waveguide flange; m/w UG-558/U; u/w RG-51/U.
UG-577/U		COAXIAL WAVEGUIDE ADAPTER: m/w UG-558/U; u/w RG-51/U.
UG-578/U		COAXIAL WAVEGUIDE ADAPTER: m/w UG-558/U; u/w RG-51/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-579/U		SERIES: tee; u/w waveguide type RG-69/U. Includes three UG-417/U.
UG-580/U		SHUNT: tee; u/w waveguide type RG-69/U. Includes three UG-417/U.
UG-581/U		UNIVERSAL CONNECTOR: between air filled line and N connector.
UG-582/U		ADAPTER: pressurized; weatherproof; adapts type N plug to rigid line; connects to 3,028 inch air filled line.
UG-583/U		ADAPTER: pressurized; weatherproof; adapts type N plug to rigid line; connects to 1 5/8" air filled line.
UG-584/U		COVER FLANGE: u/w RG-75/U waveguide; m/w UG-585/U.
UG-585/U		CHOKE FLANGE: u/w RG-75/U waveguide; m/w UG-584/U.
UG-586/U	17-C-67733-9926	CONNECTOR ADAPTER: weatherproof; type LC, 50 ohm; two female ends; m/w UG-154/U and UG-532/U.
UG-587/U	17-C-67731-5677	CONNECTOR ADAPTER: with mounting plate; weatherproof; type LC, 50 ohm; two female ends; m/w UG-154/U and UG-532/U.
UG-589/U		PLUG: type BNC single conductor cable; weatherproof.
UG-590/U		CLAMP: for clamping UG-135/U and UG-136/U together.
UG-591/U		WAVEGUIDE ADAPTER: u/w RG-67/U. Includes UG-135/U and type N female.
UG-592/U		WAVEGUIDE ADAPTER: u/w RG-67/U. Includes UG-136/U and type N female.
UG-593/U		JACK: weatherproof, type N, 50 ohm; u/w RG-59, 62, 71/U.
UG-594/U		PLUG: right angle, weatherproof, type N, 50 ohm; u/w RG-59, 62, 71/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-595/U		WAVEGUIDE COVER FLANGE: u/w RG-53, 66/U; m/w UG-596/U.
UG-596/U		WAVEGUIDE CHOKE FLANGE: u/w RG-53, 66/U; m/w UG-595/U.
UG-597/U		WAVEGUIDE COVER FLANGE: u/w RG-121/U; m/w UG-598/U.
UG-598/U		WAVEGUIDE CHOKE FLANGE: u/w RG-121/U; m/w UG-597/U.
UG-599/U		WAVEGUIDE COVER FLANGE: u/w RG-96/U; m/w UG-600/U.
UG-600/U		WAVEGUIDE CHOKE FLANGE: u/w RG-96/U; m/w UG-599/U.
UG-601/CPN-18		ADAPTER: adapts RF 5586 magnetron tube of radar transmitter T-258/CPN-18 to Duplexer CU-244/CPN-18.
UG-602/U		JACK: weatherproof; u/w RG-59, 62, 71/U; type N, 50 ohm.
UG-603/U		PLUG: weatherproof; type N, 50 ohm; u/w RG-59, 62, 71/U.
UG-604/U		RECEPTACLE CONNECTOR: one round female contact; p/o radar set AN/MPN-5.
UG-605/U	16-C-67992-4301	ADAPTER CONNECTOR: weatherproof; m/w type N male and type BN female.
UG-606/U		ADAPTER: weatherproof; m/w type N male and type BNC male.
UG-607/U		ADAPTER: adapts high-voltage output of power transformer TF-134/UPM-16 to receptacle UG-181A/U.
UG-608/U		ADAPTER: adapts high voltage output of power transformer TF-134/UPM-16 to plug UG-180A/U.
UG-609/U		ADAPTER: adapts high voltage output of power transformer TF-134/UPM-16 to receptacle UG-182A/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-610/U		ADAPTER: adapts high voltage output of power transformer TF-134/UPM-16 to plug UG-34/U.
UG-611/U		ADAPTER: adapts high voltage output of power transformer TF-134/UPM-16 to plug UG-36/U.
UG-613/U		CRYSTAL SOCKET ADAPTER.
UG-614/U		CRYSTAL SOCKET ADAPTER.
UG-615/U		PLUG: consists of plug PL-259, one end; connector MC-80, other end.
UG-616/U		PLUG CONNECTOR: used in military aircraft; high voltage DC; similar to standard connectors except smaller, lighter, and for DC only.
UG-617/U		RECEPTACLE: for use with 3000 volt DC connectors and cables.
UG-618/U		PLUG CONNECTOR: for use with 3000 volt DC connectors and cables; used in military aircraft.
UG-619/U		ADAPTER: connector for use with 3000 volt DC connectors used in military aircraft.
UG-620/U		PLUG CONNECTOR: for use with 6000 volt connectors and cables; used in military aircraft.
UG-621/U		RECEPTACLE: for use with 6000 volt DC connectors and cables; used in military aircraft.
UG-622/U		PLUG CONNECTOR: for use with 6000 volt DC connectors and cables; used in military aircraft.
UG-623/U		ADAPTER: connector for use with 6000 volt DC connectors; used in military aircraft.
UG-624/U		RF JACK: weatherproof, type BNC, u/w RG-59, 62, 71/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-625/U		RF RECEPTACLE: weatherproof, type BNC.
UG-626/U		PLUG: type C connector; weatherproof, 50 ohm; u/w RG-5, 6/U.
UG-627/U		PLUG: type C connector; 50 ohm; u/w RG-59, 62, 71/U; weatherproof.
UG-628/U		PLUG: high voltage; weatherproof, type C connector, 50 ohm; u/w RG-8, 9A/U; connects to UG-942/U.
UG-629/U		JACK: type connector, 50 ohm, weatherproof; u/w RG-5, 6/U. Includes MX-1286/U armor cable.
UG-630/U		JACK: weatherproof; u/w RG-5/U, type C, quick connect, 50 ohm.
UG-631/U		JACK: weatherproof; u/w RG-59, 62, 71/U; type C, quick connect, 50 ohm.
UG-632/U		JACK: high voltage, weatherproof, type C, quick connect, 50 ohm; u/w RG-8, 9A/U.
UG-633/U		JACK: weatherproof; u/w RG-5/U, type C, quick connect, 50 ohm.
UG-634/U		RECEPTACLE: high voltage, weatherproof, type C, 50 ohm.
UG-635/U		ADAPTER: weatherproof; m/w type C male and type BNC female.
UG-636/U		ADAPTER: (C to BNC); weatherproof; m/w type C female and type BNC male.
UG-637/U		ADAPTER: (C to UHF); weatherproof; m/w type C male and type UHF female.
UG-638/U		WAVEGUIDE ADAPTER: p/o antenna drive AS-481(XN-1)/SPS-7.
UG-640/U		SPECIAL RECEPTACLE: for submarine use.
UG-641/U		PLUG: BNC plug on one end, binding post on other end.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-642/U		ADAPTER: weatherproof, twin male ends; type C, 50 ohm.
UG-643/U		ADAPTER: weatherproof, twin female ends; type C, 50 ohm.
UG-645/U		ROTARY JOINT: waveguide coupling unit.
UG-646/U		ADAPTER: right angle; non-weatherproof; type UHF.
UG-648/U		SERIES: tee; u/w RG-75/U. Includes three UG-584/U.
UG-649/U		SHUNT: tee; u/w RG-106/U. Includes three UG-441/U.
UG-650/U		SERIES: tee; u/w RG-67/U. Includes three UG-135/U.
UG-651/U		ELECTRICAL CLAMP.
UG-652/U		ELECTRICAL CLAMP.
UG-653/U		RF LINE CAP: gas tight end terminal for terminating pressurized RF lines.
UG-654/U		RF LINE CAP: gas tight end terminal for terminating pressurized RF lines.
UG-655/U		RF LINE ELBOW: RF line section used for changing direction by 90 degrees.
UG-656/U		RF LINE ELBOW: RF line section used for changing direction by 45 degrees.
UG-657/U		RECEPTACLE: pressurized; weatherproof, type BNC.
UG-658/U		SERIES: tee; u/w RG-68/U. Includes three UG-138/U.
UG-659/U		SHUNT: tee; u/w RG-68/U. Includes three UG-138/U.
UG-660/U		SHUNT: tee; u/w RG-67/U. Includes three UG-135/U.
UG-662/U		ANTENNA ADAPTER.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-664/U		ADAPTER: male to male adapter which provides capacitive coupling between a crystal and loop coupling.
UG-665/U		RECEPTACLE: for general submarine use.
UG-666/U		ADAPTER: straight adapter; for general submarine use.
UG-667/U		RECEPTACLE: for general submarine use.
UG-668/U		RECEPTACLE: for general submarine use.
UG-669/U		RECEPTACLE: for general submarine use.
UG-670/U		ADAPTER: for general submarine use; (modified UG-479/U).
UG-671/U		ADAPTER: straight adapter for general submarine use.
UG-672/U		RECEPTACLE: for general submarine use.
UG-675/U		PART OF ANTENNA AS-519/GPN AND AS-520/GPN: used to attenuate end lead X band radar and feed energy to coaxial line.
UG-678/U		PLUG: (quick disconnect); weatherproof; u/w RG-17, 18/U; m/w UG-679/U.
UG-679/U		ADAPTER: (quick disconnect); weatherproof; m/w UG-678/U.
UG-920/U		ADAPTER CONNECTOR: one male, other end female; type HN, right angle, RF, 50 ohm.
UG-925/U		PLUG CONNECTOR: HN straight type, RF, 50 ohm, teflon insert, weatherproof, armor clamp included; u/w RG-8, 9, 116/U cables.
UG-927/U		RECEPTACLE CONNECTOR: u/w RG-116/U; HN straight type, 50 ohms, teflon insert.
UG-929/U		RECEPTACLE CONNECTOR: HN straight type, 50 ohm; u/w RG-8, 9, 116/U cables.
UG-930/U		RECEPTACLE CONNECTOR: HN straight type, 50 ohm; u/w RG-8, 9, 116/U cables.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-935/U		RECEPTACLE CONNECTOR: type N, 50 ohm; u/w RG-10/U and RG-12/U; similar to UG-22B/U except that the clamp nut is replaced by armor clamp MX-564A/U.
UG-935A/U		PANEL JACK: supersedes UG-22/U series.
UG-936/U		RECEPTACLE CONNECTOR: type N, 50 ohm; u/w RG-10/U and RG-12/U; similar to UG-160A/U except that the clamp nut is replaced by armor clamp MX-564A/U.
UG-936A/U		BULKHEAD JACK: supersedes UG-160/U series.
UG-937/U		RECEPTACLE CONNECTOR: type C, 50 ohm; u/w RG-10/U size cables; similar to UG-570/U except clamp nut is replaced by armor clamp MX-1286/U.
UG-938/U		RECEPTACLE CONNECTOR: type C, 50 ohm; u/w RG-10/U; similar to UG-571/U except that cable nut is replaced by armor clamp MX-1286/U.
UG-939/U		RECEPTACLE CONNECTOR: type C, 50 ohm; u/w RG-10/U size cables; similar to UG-632/U except clamp nut is replaced by armor clamp MX-1286/U.
UG-940/U		PLUG CONNECTOR: type N, 50 ohm; u/w RG-10/U and RG-12/U; similar to UG-23B/U except that clamp nut is replaced by armor clamp MX-564A/U.
UG-940A/U		JACK: supersedes UG-23/U series.
UG-941/U		PLUG CONNECTOR: type N, 50 ohm; u/w RG-10/U and RG-12/U; similar to UG-21B/U except clamp nut is replaced by armor clamp MX-564A/U.
UG-941A/U		PLUG: supersedes UG-21/U series.
UG-942/U		PLUG CONNECTOR: type C, 50 ohm; u/w RG-10/U.

UG TABLE (Cont'd)

Navy Type Designation	Standard Navy Stock Number	Name and Description
UG-943/U		PLUG CONNECTOR: type C, 50 ohm; u/w RG-10/U; similar to UG-573/U except clamp nut is replaced by armor clamp MX-1286/U.
UG-944/U		PLUG CONNECTOR: type C, 50 ohm; u/w RG-10/U; similar to UG-572/U except uses MX-1286/U.
UG-945/U		PLUG CONNECTOR: right angle, type C, 50 ohm; u/w RG-10/U; similar to UG-710/U except uses MX-1286/U.
UG-982/U		PLUG: same as UG-167/U series, but incorporates armor clamp MX-1441/U.

LIST OF BOOKS FOR STUDY OR REFERENCE

MATHEMATICS

Cooke - Mathematics Essential to Electricity
Cooke - Mathematics for Electricians and Radiomen
Kuehn - Mathematics for electricians

ELECTRICITY

Abbot - National Electrical Code Handbook
Audel - New Electrical Library, 12 V.
Croft - American Electricians Handbook
Gulliksen - Industrial Electronics
Pender - Electrical Engineer's Handbook, 2 V.
Pender - Standard Handbook for Electrical Engineers
Timbie - Basic Electricity

AVIATION

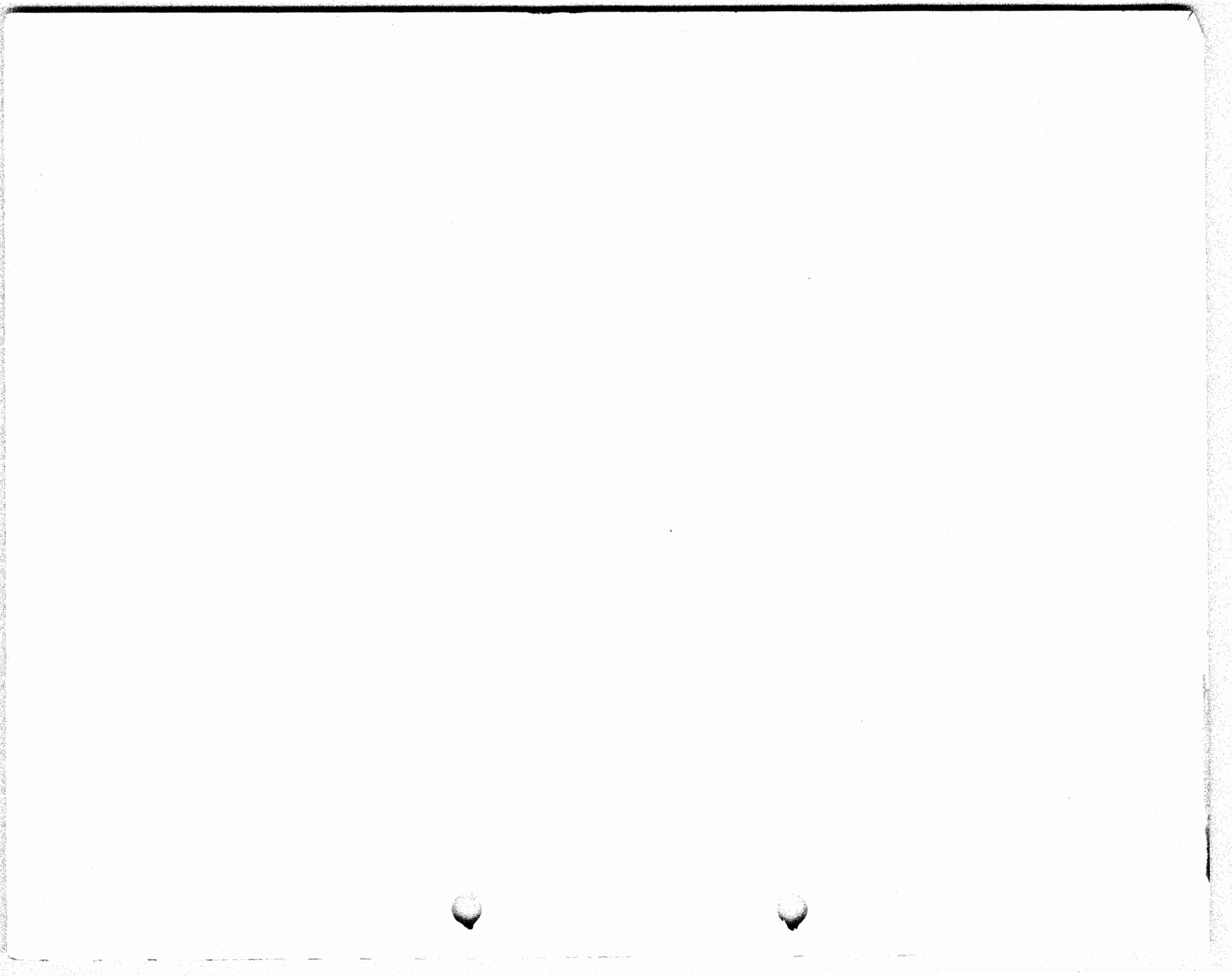
McIntosh - Radio Navigation for Pilots
Morgan - Aircraft Radio and Electrical Equipment

RADIO

Albert - Electrical Communication
Albert - Electrical Fundamentals of Communications
Albert - Fundamentals of Telephony
Almstead - Radio Fundamentals
Almstead - Radio Material Guide
ARRL - Antenna Book
ARRL - Radio Amateur's Handbook
AT & T - Principles of Electricity Applied to Telephone

Burns - Radio
Cameron - Servicing Sound Equipment
Camm - Radio Engineer's Pocket Book
Caverly - Primer of Electronics
Dunlap - Electrical and Radio Dictionary
Dunlap - Radar: What It Is and How It Works
Eastman - Fundamentals of Vacuum Tubes
Eddy - Aeronautics Radio
Eddy - Television
Floherty - Behind the Microphone
Gherardi - Modern Radio Servicing
Gherardi - Radio Physics Course
Gherardi - Radio Troubleshooter's Handbook
Hall - Radar Aids to Navigation
Harper - Rhombic Antenna Design
Hartshorn - Radio Frequency Measurements
Harvard University - Electronic Circuits and Tubes
Hicks - Principles and Practices of Radio Servicing
Hoag - Basic Radio
Jordan - Fundamentals of Radio
Kiver - Television Simplified
Kiver - Ultra High Frequency Radio Simplified
Marcus and Horton - Elements of Radio
Manly - Drakes Electrical and Radio Dictionary
Millman - Electronics
Mills - Electronics
MIT Radar - Principles of Radar, 2nd Ed.
Morgan - Aircraft Radio

Moyer - Radio Construction and Repairing
Nilson - Practical Radio Communication
Nilson - Radio Code Manual
Nilson - Radio Operating Question and Answers
RCA - Air Cooled Transmitting Tubes
RCA - Receiving Tube Manual
RCA - Radio Fundamentals
RCA - Radio Handbook, 11th Ed. 3 V.
Rider - Cathode Ray Tube at Work
Rider - Frequency Modulation
Rider - Servicing Superheterodynes
Roberts - Aviation Radio
Roberts - Radar Beacons
Robinson - Radio Telegraphy and Telephony
Saudretto - Principles of Aeronautical Radio Engineering
Slurzberg - Electrical Essentials of Radio
Smith - Radio Handbook
Sterling - Radio Manual
Terman - Fundamentals of Radio
Terman - Radio Engineering, 1947 Ed.
Terman - Radio Engineer's Handbook
Tyler - Telecasting and Color
Watson - Understanding Radio



INDEX

Subject	Figure or Table No.	Page
A		
Additional designations - JAN nomenclature	18-10
Antenna fundamentals	18-89
Characteristic impedance	18-89
Comparison of electrical and physical length	18-89
Length determination	18-89
Area - table of common factors	18-91
Army-Navy standard list of RG type designations	18-129
Audio frequency transformers - color codes for transformer leads	18-33
Authorized abbreviations	18-1
Avoirdupois weight, table of	18-99
B		
Bare copper wire - magnet wire table	18-79
C		
Cabling tables	18-12
Heat and flame resistant, non-flexing service	18-12
Heat, flame, oil resistant, repeated flexing service	18-17
Special purpose cables	18-15
Twisted pair, telephone, radio, shielded cable - armored and unarmored	18-16
Carriage bolts	18-59
Centigrade table of relative humidity	18-94
CG table	18-106
Characteristic impedance - antenna fundamentals	18-89
Color code for Navy type twisted pair telephone wires	18-21
Color codes for capacitors	18-3	18-35
Color codes for fixed composition resistors	18-2	18-34
Color codes for transformer leads	18-2	18-33
Audio frequency transformers	18-33
Radio power transformers	18-33
Commercial wire gages	18-75
Comparison of electrical and physical length - antenna fundamentals	18-89
Component designations - JAN nomenclature	18-7
Conversion factors, table of	18-91
Area	18-91
Energy	18-92
Length	18-91
Power	18-92
Miscellaneous	18-92
Conversion table of electrical units	18-90
Copper bus bar	18-81
Current leakage of electrolytic capacitors	18-96
Cubic measure-weights and measures table	18-101

Subject	Figure or Table No.	Page
D		
Decibel conversion chart	18-23
Decimal equivalents of an inch	18-44
Definitions (screw threads)	18-46
Dielectric constants, table of	18-96
Dry measure-weights and measures table	18-99
E		
Electrical symbols	18-1	18-25
Energy - table of common factors	18-92
Examples of AN type numbers - JAN nomenclature	18-11
F		
Fahrenheit psychrometric humidity table	18-95
Frequency allocations	18-38
H		
Heat and flame resistant, non-flexing service - cabling tables	18-12
Heat, flame, oil resistant, repeated flexing service - cabling tables	18-17
Hexagon and square machine screw nuts and jam nuts (Class 2 fit)	18-70
J		
JAN nomenclature	18-7
Additional designations	18-10
Component designations	18-7
Examples of AN type numbers	18-11
Set or equipment designation	18-10
L		
Length determination	18-89
Length - metric measure	18-102
Length - table of conversion factors	18-91
Letter symbols for electron tube notation	18-24
Liquid measure-weights and measures table	18-100
List of books for study or reference	18-203
Long measure - weights and measures table	18-100
Lumber weights - table of	18-104
Plywood	18-105
Wood	18-104

Subject	Figure or Table No.	Page
M		
Machine bolts	18-47
Naval brass	18-47
Steel - corrosion resisting	18-57
Steel - galvanized	18-54
Steel - uncoated (black)	18-48
Magnet wire table.....	18-78
Bare copper wire	18-79
Measure of angles or arcs.....	18-102
Metric system - weights and measures table.....	18-102
Length	18-102
Surface	18-102
Volumes	18-103
Weights	18-103
Miscellaneous - table of conversion factors	18-92
N		
National coarse and national fine thread	18-45
Nautical measure - weights and measures table.....	18-101
Naval brass - machine bolts	18-47
Navy standard color code for conductors	18-22
Nomenclature of frequency bands.....	18-36
O		
Ohms law table.....	18-8	18-91
P		
Plywood - table of lumber weights.....	18-105
Power - table of conversion factors.....	18-92
Pronouncing alphabet (communications)	18-36
R		
Radio power transformers - color codes for transformer leads	18-33
RG tables.....	18-129
S		
Screw threads.....	18-7	18-74
Set or equipment designation - JAN nomenclature	18-10
Special purpose cables - cabling tables.....	18-15
Square measure - weights and measures table	18-100
Standard metal gages.....	18-76

Subject	Figure or Table No.	Page
S		
Standard Navy stock numbers of commercial brass (uncoated) machine screws	18-62
Station WWV time announcements	18-9	18-98
Stations and frequencies used for time checks	18-37
Steel, corrosion resisting - machine bolts.....	18-57
Steel, galvanized - machine bolts.....	18-54
Steel stuffing tube information	18-20
Steel, uncoated (black) - machine bolts	18-48
Surface, metric system - weights and measures table	18-102
Surveyor's measure - weights and measures table.....	18-101
T		
Table of conversion factors	18-91
Area	18-91
Energy	18-92
Length	18-91
Power	18-92
Miscellaneous	18-92
Table of dielectric constants	18-96
Table of lumber weights	18-104
Plywood	18-105
Wood	18-104
Tap drill sizes	18-42
Thermometric conversion scales	18-93
Time conversion tables	18-97
Troy weight - weights and measures table	18-99
Twisted pair, telephone, radio, shielded cable (armored and unarmored) - cabling tables.....	18-16
Type A, 6 x 19 - wire rope table	18-82
Type B, 6 x 19 - wire rope table	18-83
Type C, 6 x 19 - wire rope table	18-84
Type F, 6 x 12 - wire rope table	18-85
Type G, 6 x 12 - wire rope table	18-86
Type H, 6 x 12 - wire rope table	18-87
Type M, 1 x 7 - wire rope table	18-88
Type N, 1 x 19 - wire rope table	18-88
Types of bolts and washers	18-5	18-72
Types of nuts	18-6	18-73
Types of screws	18-4	18-71
Types of transmission	18-40
U		
UG table	18-147
V		
Volumes, metric system - weights and measures table	18-103

Subject	Figure or Table No.	Page
W		
Weights and measures table.....	18-99
Avoirdupois weight	18-99
Cubic measure	18-101
Dry measure	18-99
Liquid measure	18-100
Long measure	18-100
Measure of angles or arcs	18-102
Metric system	18-102
Nautical measure	18-101
Square measure	18-100
Surveyor's measure	18-101
Troy weight	18-99
Weights, metric system - weights and measures table	18-103
Wire rope table	18-82
Type A, 6 x 19	18-82
Type B, 6 x 19	18-83
Type C, 6 x 19	18-84
Type F, 6 x 12	18-85
Type G, 6 x 12	18-86
Type H, 6 x 12	18-87
Type M, 1 x 7	18-88
Type N, 1 x 19	18-88

