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# SPOTS!

## SPOTS! FREQUENCY COLOR CODE (SEE COLOR SPOT ON ANTENNA TOP)

VHF	CENTER FREQUENCY	COLOR
144	138 - 150 MHz	Gray
156	150 - 162 MHz	Orange
160	154 - 166 MHz	Green
167	160 - 174 MHz	Red

UHF	CENTER FREQUENCY	COLOR
420	403 - 437 MHz	Blue
450	432 - 468 MHz	Yellow
470	450 - 490 MHz	Red
490	470 - 510 MHz	Green

800 / 900	CENTER FREQUENCY	COLOR
832	795 - 870 MHz	Blue
918	872 - 964 MHz	Red
1800	1710 - 1850 MHz	Black
1900	1850 - 1990 MHz	Black
2400	2400 - 2500 MHz	Black



## SPOTS! CODE ANTENNA SELECTION GUIDE BY CONNECTOR TYPE

Determine connector type on the following pages and select the proper antenna based on frequency and type below. Field tunable antennas come with a cutting chart and cap to allow for tuning to exact frequency.



1/4-32X3/16

Male stud type mount with skirt (MX type)

### Popular Brands Supported

Motorola, Kenwood, Maxon, Midland, Wilson, G.E., Vertex

### 1/4-32X3/16 - MALE STUD CONNECTOR (MX TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHL10156	150 - 162	Helical Standard 1/4 λ	8"
SPHS10156	152 - 160	Helical Short 1/4 λ	4"
SPHL10160	154 - 166	Helical Standard - 1/4 λ	8"
SPHL10160IC*	CC to 157	Helical Standard 1/4 λ	8"
SPHL10167	160 - 174	Helical Standard 1/4 λ	8"
SPHL10167IC*	CC to 167	Helical Standard 1/4 λ	8"
SPWH10420	395 - 445	Whip Standard 1/4 λ	6"
SPHS10420	403 - 437	Helical Short 1/4 λ	3"
SPWH10450	425 - 475	Whip Standard 1/4 λ	6"
SPHS10450	432 - 468	Helical Short 1/4 λ	3"
SPWH10470	450 - 490	Whip Standard 1/4 λ	6"
SPHS10470	452 - 488	Helical Short 1/4 λ	3"
SPHL10FT	Field Tunable 136 - 221	Helical Standard 1/4 λ	8"
SPWH10FT	Field Tunable 400 - 512	Whip Standard 1/4 λ	6"

\* This antenna is designed with a longer "skirt" for use with ICOM radios.



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## M7 X 1.00 METRIC CONNECTOR (MD TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
*SPEN14832	806 - 866	Whip - 1/2 – End Fed	7"
*SPWH14832	782 - 882	Whip - Standard - 1/4 λ	3"
*SPHS14832	800 - 865	Helical - Short - 1/4 λ	2.75 "
*SPEN14918	890 - 960	Half – End Fed	6"
*SPHL14FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	7"



M7.0X1.0

Male stud type connector unskirted (MD type)

Popular Brands Supported

G.E., Ericsson

## BNC CONNECTOR (BN TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
*SPHS15450	432 - 468	Helical - Short - 1/4 λ	3"
*SPHL15FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
*SPWH15FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



BNC

BNC Male coaxial connector unskirted

Popular Brands Supported

G.E., Kenwood, Motorola, Maxon, Johnson

## BNC CONNECTOR COVERED TYPE (BNX TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
*SPHL16FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
*SPWH16FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



BNC-S

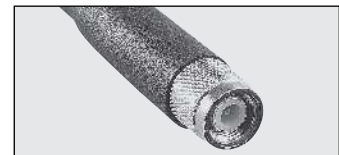
BNC Male coaxial connector fully skirted (BNX type)

Popular Brands Supported

Ericsson

## TNC CONNECTOR - STANDARD (TN TYPE) - EXPOSED BRIGHT FINISH

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPDA17806/2170LAR	806 - 960 / 1710 - 2170	Center Fed Dipole	8"
SPDA17832	824 - 894	Center Fed Dipole	8"
SPDA17850/1900	824 - 894 / 1850 - 1990	Center Fed Dipole	7.5"
SPDA17918	890 - 960	Center Fed Dipole	8"
SPDA171800	1710 - 1850	Center Fed Dipole	6.5"
SPDA171900	1850 - 1990	Center Fed Dipole	6.5"
SPDA172400	2400 - 2500	Center Fed Dipole	6"
SPDA17RP2400	2400 - 2500	Center Fed Dipole	6"
SPDA17RP2400/5900	2400 - 2500 / 4900 - 5900	Center Fed Dipole	6"
SPDA17RP918	890 - 960	Center Fed Dipole	8"
*SPHL17FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
*SPWH17FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"
ICEBLADELT	698 - 960 / 1710 - 2170 / 2500 - 2700	Multiband	9"
ICEBLADEWT	698 - 960 / 1710 - 2170 / 2500 - 2700	Multiband	9"



TNC

TNC Male coaxial connector unskirted (TN type)

Popular Brands Supported

Icom, Standard



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### TNC-S

TNC Coaxial connector fully skirted (TNX type)

Popular Brands Supported

Vertex

### TNC CONNECTOR - COVERED (TNX TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHL18FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH18FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



### SMA MALE T1

SMA Male extended base (SMS Type)

Popular Brands Supported

Standard

### SMA MALE STANDARD - EXTENDED BASE - T1 (SMS TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWH20832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS20832	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWH20918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS20918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL20FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH20FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



### SMA F T1

SMA Female flush insulator & partial skirt (SF Type)

Popular Brands Supported

Motorola

### SMA FEMALE - NON STANDARD MOTOROLA TYPE (SF TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB21150	136 - 174	Helical - Standard - 1/4 λ	6.75"
SPHL21156	150 - 162	Helical - Standard - 1/4 λ	8"
SPHS21156	152 - 160	Helical - Short - 1/4 λ	4"
SPHL21167	160 - 174	Helical - Standard - 1/4 λ	8"
SPHS21167	162 - 172	Helical - Short - 1/4 λ	4"
SPWH21450	425 - 475	Whip - Standard - 1/4 λ	6"
SPHS21450	432 - 468	Helical - Short - 1/4 λ	3"
SPHS21490	475 - 512	Helical - Short - 1/4 λ	3"
SPWH21832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS21832	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWH21918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS21918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL21FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH21FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



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## SMA FEMALE STANDARD - FLUSH BASE - T2 (SFJ TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB22150	136 - 174	Helical - Standard - 1/4 $\lambda$	6.75"
SPHL22156	150 - 162	Helical - Standard - 1/4 $\lambda$	8"
SPHL22167	160 - 174	Helical - Standard - 1/4 $\lambda$	8"
SPWH22450	425 - 475	Whip - Standard - 1/4 $\lambda$	6"
SPHS22450	432 - 468	Helical - Short - 1/4 $\lambda$	3"
SPWH22470	450 - 490	Whip - Standard - 1/4 $\lambda$	6"
SPHS22470	452 - 468	Helical - Short - 1/4 $\lambda$	3"
SPHS22490	475 - 512	Helical - Short - 1/4 $\lambda$	3"
SPWH22832	782 - 882	Whip - Standard - 1/4 $\lambda$	3"
SPHS22832	800 - 864	Helical - Short - 1/4 $\lambda$	2.75"
SPWH22918	863 - 973	Whip - Standard - 1/4 $\lambda$	3"
SPHS22918	872 - 954	Helical - Short - 1/4 $\lambda$	2.75"
SPHL22FT	Field Tunable 136 - 221	Helical - Standard - 1/4 $\lambda$	8"
SPWH22FT	Field Tunable 400 - 512	Whip - Standard - 1/4 $\lambda$	6"



SMA F T2

SMA Female recessed insulator & partial (short) skirt (SFJ type)

Popular Brands Supported

EF Johnson, Kenwood

## SMA FEMALE STANDARD - HALF SKIRT BASE - T3 (SFU TYPE)

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB23150	136 - 174	Helical - Standard - 1/4 $\lambda$	6.75"
SPHL23167	160 - 174	Helical - Standard - 1/4 $\lambda$	8"
SPWH23450	425 - 475	Whip - Standard - 1/4 $\lambda$	6"
SPHS23450	432 - 468	Helical - Short - 1/4 $\lambda$	3"
SPWH23470	450 - 490	Whip - Standard - 1/4 $\lambda$	6"
SPHS23470	452 - 488	Helical - Short - 1/4 $\lambda$	3"
SPWH23490	470 - 512	Whip - Standard - 1/4 $\lambda$	6"
SPHS23490	475 - 512	Helical - Short - 1/4 $\lambda$	3"
SPWH23832	782 - 882	Whip - Standard - 1/4 $\lambda$	3"
SPWH23918	863 - 973	Whip - Standard - 1/4 $\lambda$	3"
SPHS23918	872 - 954	Helical - Short - 1/4 $\lambda$	2.75"
SPHL23FT	Field Tunable 136 - 221	Helical - Standard - 1/4 $\lambda$	8"
SPWH23FT	Field Tunable 400 - 512	Whip - Standard - 1/4 $\lambda$	6"



SMA F T3

SMA Female recessed insulator & partial (long) skirt (SFU type)

Popular Brands Supported

Kenwood (2005 and newer models), Uniden, King



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SMA MALE T2

SMA Male flush base (SM Type)

Popular Brands

G.E., Technophone, Relm

SMA MALE - FLUSH BASE - T2 (SM TYPE)

PART NUMBER	CONNECTOR	FREQUENCY BAND (MHz)	ANTENNA TYPE	APPROX LENGTH
SPDA24700/2700	SMA Male	698-960/1710-2170/2500-2700	Multiband	9"
SPDA24832	SMA	824 - 894	Center Fed Dipole	9"
SPDA24850/1900	SMA	824 - 894 / 1850 - 1990	Center Fed Dipole	7.5"
SPDA24918	SMA M T2	890 - 960	Center Fed Dipole	8"
SPDA241800	SMA M T2	1710 - 1880	Center Fed Dipole	6.5"
SPDA241900	SMA M T2	1850 - 1990	Center Fed Dipole	6.5"
SPDA242400	SMA	2400 - 2500	Center Fed Dipole	6"
SPDA24RP918	SMA M T2 RP	890 - 960	Center Fed Dipole	8"
SPDA24RP 2400	SMA M T2 RP	2400 - 2500	Center Fed Dipole	6"
SPDP24832	SMA M T2	824 - 894	Center Fed Dipole	8"
SPDP24918	SMA M T2	890 - 960	Center Fed Dipole	
SPDP242400	SMA M T2	2400 - 2500	Center Fed Dipole	3.5"
SPEN24815	SMA M T2	760 - 870	Whip - End Fed - 1/2 λ	7
*SPHS24832	SMA M T2	800 - 864	Helical - Short - 1/4 λ	2.75"
*SPHS24918	SMA M T2	872 - 954	Helical - Short - 1/4 λ	2.75"
*SPWB24150	SMA M T2	136 - 174	Wideband	7.5"
*SPWB24425	SMA M T2	380 - 470	Wideband	6.5"
*SPWB24480	SMA M T2	440 - 520	Wideband	6"
*SPWH24815	SMA M T2	760 - 870	Whip - Short - 1/4 Wave	3.5
*SPWH24918	SMA M T2	863 - 973	Whip - Standard - 1/4 λ	3"
*SPHL24FT	SMA M T2	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
*SPWH24FT	SMA M T2	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"
ICEBLADELT	SMA Male	698-960/1710-2170/2500-2700	Multiband	9"
ICEBLADEWS	SMA Male	2400-2500/4900-5900	Multiband	9"



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SPDA



SPDP



SPEN



SPHS



SPWB



SPWH



SPHL



ICE