



Tram-Browning Antennas

“Quality Workmanship and Materials - Exceptional Performance and Function - Expert Engineering”

4G/3G LTE Wide Band High Gain Low Profile Antenna



Model BR-2427

- NMO mounting • SWR<1.5:1 • 3 1/4” tall
- 698-960 MHz 3.5 dBi Gain
- 1710-1990 MHz 5.5 dBi Gain
- 2100-2700 MHz 4.6 dBi Gain

Model BR-2428

- Permanent hole mount • N female • SWR<1.5:1 • 3 1/4” tall

Model BR-2430

- NMO mounting • SWR<2.0:1 • 5 1/2” tall
- 698-960 MHz 6 to 13 dBi Gain
- 1710-1990 MHz 7 dBi Gain
- 2100-2700 MHz 4 to 8 dBi Gain



Wide Band Antennas - No Tuning

- NMO mounting • Gold plunger type contact pin • Solid brass bushings with chrome or black finish
- Chrome plated brass whip adaptor or stainless steel spring • .100”(2.5mm) tapered stainless steel whip
- 160 watts • Polybag w/ header card for display, UPC coded

Model	Freq. MHz	Bandwidth MHz	Gain	Description	Total Height	Wave
BR-167-S	136-174	38	Unity	w/spring	20”	1/4 wave
BR-167-B-S	136-174	38	Unity	Black w/spring	20”	1/4 wave
BR-168	145-165	20	2.4 dBd with ground plane Unity without ground plane		39”	1/2 wave
BR-168-S	145-165	20	2.4 dBd with ground plane Unity without ground plane	w/spring	38”	1/2 wave
BR-168-B	145-165	20	2.4 dBd with ground plane	Black	39”	1/2 wave
BR-168-B-S	145-165	20	2.4 dBd with ground plane Unity without ground plane	Black w/spring	38”	1/2 wave
BR-178-S	380-520	140	2.4 dBd with ground plane Unity without ground plane	w/spring	11”	1/2 wave
BR-178-B-S	380-520	140	2.4 dBd with ground plane Unity without ground plane	Black w/spring	11”	1/2 wave
BR-1793-S	350-450	100	2.4 dBd with ground plane Unity without ground plane	w/spring	12”	1/2 wave
BR-1794-S	406-470	64	3 dBd with ground plane Unity without ground plane	w/spring	12”	1/2 wave
BR-1794-B-S	406-470	64	3 dBd with ground plane Unity without ground plane	Black w/spring	12”	1/2 wave
BR-170	440-480	40	4.5 dBd		30”	5/8 over 1/2 wave
BR-170-S	440-480	40	4.5 dBd	w/spring	31”	5/8 over 1/2 wave

BR-167-S
BR-168-S
BR-178-S
BR-1793-S
BR-1794-S



BR-168

BR-170

BR-168 & BR-168-B	
Freq. MHz	SWR
145	<1.87:1
150	<1.18:1
155	<1.07:1
160	<1.47:1
165	<1.95:1

BR-168-S & BR-168-B-S	
Freq. MHz	SWR
145	<1.90:1
150	<1.16:1
155	<1.06:1
160	<1.55:1
165	<2.00:1

BR-178-S & BR-178-B-S	
Freq. MHz	SWR
380	<1.74:1
430	<1.18:1
450	<1.19:1
470	<1.23:1
490	<1.30:1
520	<1.62:1

BR-1793-S	
Freq. MHz	SWR
350	<1.62:1
380	<1.09:1
406	<1.25:1
430	<1.47:1
450	<1.65:1

BR-170	
Freq. MHz	SWR
440	<1.43:1
450	<1.21:1
460	<1.19:1
470	<1.42:1
480	<1.54:1

BR-170-S	
Freq. MHz	SWR
440	<1.58:1
450	<1.31:1
460	<1.09:1
470	<1.36:1
480	<1.55:1

Fiberglass Omnidirectional Base

- N Female connector • Pre tuned • w/Mounting bracket
- No-Ground Plane • Poly bag w/header card • UPC coded

browning®

Model	Frequency	Gain	Length	VSWR	Bandwidth (VSWR less than 1.5:1)
BR-6050	152-156 MHz	Unity	68"	1.25 Max	10 MHz
BR-6052	148-152 MHz	3 dBd	107"	1.30 Max	
BR-6053	152-156 MHz	3 dBd	107"	1.25 Max	
BR-6054	156-162 MHz	3 dBd	107"	1.30 Max	
BR-6070	Dual Band 144-148 MHz/ 440-450 MHz	4.5 dBd 7.2 dBd	63"	1.5:1 Max	
BR-6140	450-470 MHz	Unity	26"	1.30 Max	50 MHz
BR-6143	450-460 MHz	3 dBd	44"	1.25 Max	33 MHz
BR-6145	450-460 MHz	5 dBd	76"	1.30 Max	15 MHz
BR-6146	460-470 MHz	5 dBd	76"	1.30 Max	15 MHz
BR-6155	450-470 MHz	5 dBd	76"	1.70 Max	25 MHz (VSWR less than 1.8:1)
BR-6280	806-866 MHz	Unity	15"	1.25 Max	110 MHz
BR-6283	806-866 MHz	3 dBd	25"	1.60 Max	96 MHz (VSWR less than 1.8:1)
BR-6286	806-866 MHz	6 dBd	65"		
BR-6245	2.4 - 2.5 GHz	5 dBi	14"		
BR-6248	2.4 - 2.5 GHz	8 dBi	24"		
BR-6249	2.4 - 2.5 GHz	15 dBi	63 "		

Fully Welded Yagi's

- N Female connector • Pre tuned • w/Mounting bracket • Boxed w/UPC code

Model	Frequency	Elements	Gain	Finish
BR-6353	450-470 MHz	3	7.1 dBd	Gold
BR-6355	450-470 MHz	5	9.2 dBd	Gold
BR-6356	450-470 MHz	6	10.2 dBd	Gold
BR-6356-B	450-470 MHz	6	10.2 dBd	Black
BR-6383	806-896 MHz	3	6 dBd	Gold
BR-6386	806-896 MHz	6	9 dBd	Gold
BR-6386-B	806-896 MHz	6	9 dBd	Black
BR-6388	806-896 MHz	12	11 dBd	Gold
BR-6388-B	806-896 MHz	12	11 dBd	Black
BR-6393	896-970 MHz	3	6 dBd	Gold
BR-6396	896-970 MHz	6	9 dBd	Gold

Tunable Yagi's

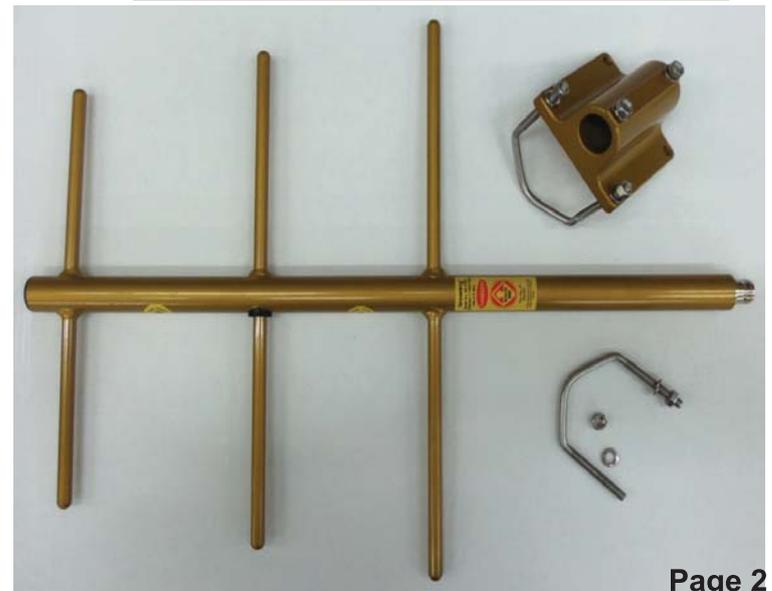
- N Female connector • w/Mounting bracket • Boxed w/UPC code

BR-6333	150-174 MHz	3	7.1 dBd	Gold
BR-6333-B	150-174 MHz	3	7.1 dBd	Black

Enclosed Yagi's

- 3 ft. cable w/ N Female connector • w/Mounting bracket
- Boxed w/UPC code

BR-6320	2.4-2.5 GHz	Enclosed	15 dBi	White
BR-6325	4.9-5.8 GHz	Enclosed	14.5 dBi	White





LOW PROFILE ANTENNAS

- Premium Copper Coated Brass NMO Base • VSWR < 1.5:1
- Polybag w/ Header Card

Standard Plunger Contact Pin NMO Mounting

Model	Frequency Band Width	Gain	Height
BR-2445	450-465 MHz	2.4 dBi	3 1/8" (82mm)
BR-2480	760-1000 MHz	2 dBi	3 1/8" (82mm)
BR-2425 (No-Ground Plane)	2.4 - 2.5 GHz	3 dBi	3 3/8" (85mm)

High Frequency Female Contact Pin NMO Model

BR-2483	806-960 MHz	3 dBi	3 1/8" (82mm)
(Tri-Band)	1710-1990 MHz	4 dBi	
	2.4 - 2.5 GHz	2 dBi	

Standard Plunger Contact Pin NMO Short Whip

BR-2233	2.2-2.9 GHz	3 dBi	4 6/8" (120mm)
BR-2235	2.2-2.9 GHz	5 dBi	8" (205mm)



800-900 MHz Antennas

NMO Mounting w/Black Kote Finish

- No tuning - 100 MHz bandwidth • Open colliner • Gold contact pin
- Polybag w/ header card for display, UPC coded

Model	Description	Gain	Height
BR-813	5/8 over 1/4 wave	3 dBd	15"
BR-817	5/8 over 5/8 over 1/4 wave	5 dBd	22"

806-866 or 826-896 MHz Antennas

NMO Mounting w/Black Kote Finish

- Pretuned to 806-866 MHz • Cut to length for 826-896 MHz • Tuning length from bottom of coil to bottom of whip
- Gold contact pin • Polybag w/ header card for display, UPC coded

Model	Description	Gain	Height
BR-815	5/8 over 1/2 wave	3.5 dBd	16"
	806-866 MHz tuning length 4 3/16" (106mm)		
	826-896 MHz tuning length 3 5/8" (92.5mm)		
BR-819	5/8 over 5/8 over 1/4 wave	5 dBd	22 1/2"
	806-866 MHz tuning length 2 1/4" (58mm)		
	826-896 Mhz tuning length 1 1/2" (38.5mm)		



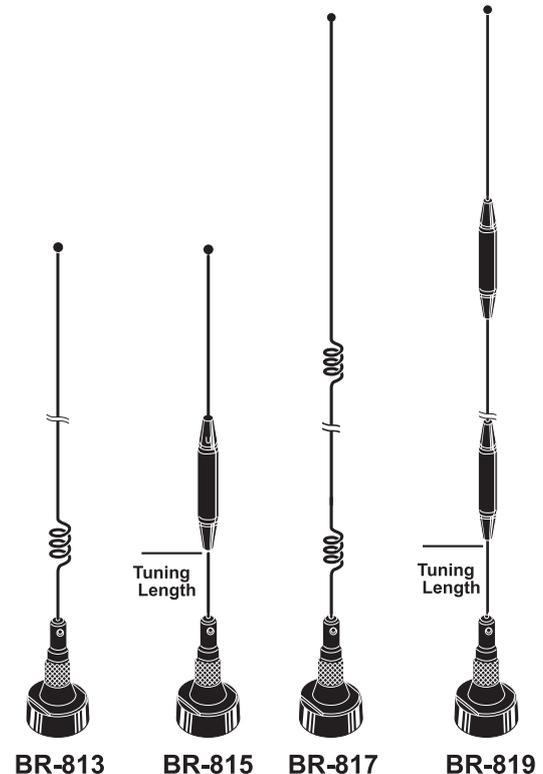
BR-2233

BR-2235

BR-2425

BR-2445
BR-2480

BR-2483



BR-813

BR-815

BR-817

BR-819

browning® NMO VHF Antennas

- Gold plunger type contact pin • Premium coil with metal base and top • 200 watts power rating
- Stainless steel tapered whip .100"(2.5mm) • Poly bag w/header card, UPC coded

NMO VHF 3 dBd Antennas

Model	Description	Frequency	Gain	Whip
BR-150	5/8 wave	144-174 MHz	3 dBd	49" .100"(2.5mm)
BR-150-S	w/spring			
BR-Whip-49	Replacement whip 49"			49" .100"(2.5mm)
BR-Whip-55	Replacement whip 55"			55" .100"(2.5mm)

- Black coil w/copper coated brass base • Black stainless steel .100"(2.5mm) whip

BR-150-B	5/8 wave	144-174 MHz	3 dBd	49" .100"(2.5mm)
BR-150-B-S	w/spring			
BR-Whip-B-49	Black Replacement Whip			49" .100"(2.5mm)

NMO No-Ground Plane 2.4 dBd Gain, 5 MHz Band Width

BR-155	1/2 wave	132-174 MHz	2.4 dBd	49" .100"(2.5mm)
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NMO No-Ground Plane 2.4 dBd Gain, 20 MHz Band Width Pre Tuned

BR-158	1/2 wave	150-170 MHz	2.4 dBd	36 1/2" .100"(2.5mm)
BR-158-S	w/ spring			34 1/2" .100"(2.5mm)

Wide band no tuning on BR-158 series - 20 MHz Band Width

- Black coil w/copper coated brass base • Black stainless steel tapered .100"(2.5mm) whip

BR-158-B	1/2 wave	150-170 MHz	2.4 dBd	36 1/2" .100"(2.5mm)
BR-158-B-S	w/ spring			34 1/2" .100"(2.5mm)

NMO No-Ground Plane 2.4 dBd Gain, 28 MHz Band Width

BR-159	1/2 wave	133-180 MHz	2.4 dBd	43" .100"(2.5mm)
BR-159-HD	1/2 wave	133-180 MHz	2.4 dBd	43" .125"(3.18mm)

NMO UHF Antennas

- Gold plunger type contact pin • Premium coil with metal base and top • 200 watts power rating
- Stainless steel tapered whip .100"(2.5mm) • Poly bag w/header card, UPC coded

Model	Description	Frequency	Gain	Height
BR-406	5/8 over 5/8 wave	406-430 MHz	5.5 dBd	40 1/2"
BR-430	5/8 over 5/8 wave	430-450 MHz	5.5 dBd	37"
BR-450	5/8 over 5/8 wave	450-470 MHz	5.5 dBd	34 1/2"
BR-470	5/8 over 5/8 wave	470-490 MHz	5.5 dBd	33"
BR-490	5/8 over 5/8 wave	490-512 MHz	5.5 dBd	31"

- 450-470 MHz • Black stainless steel .100"(2.5mm) whip • Black coil w/copper coated brass base

BR-450-B	5/8 over 5/8 wave	450-470 MHz	5.5 dBd	35"
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NMO No-Ground Plane - 20 MHz Band Width

BR-455-B	1/2 wave	430-450 MHz	2.4 dBd	12 5/8"
BR-455	1/2 wave	450-490 MHz	2.4 dBd	11 5/8"

NMO UHF No-Ground Plane Antennas

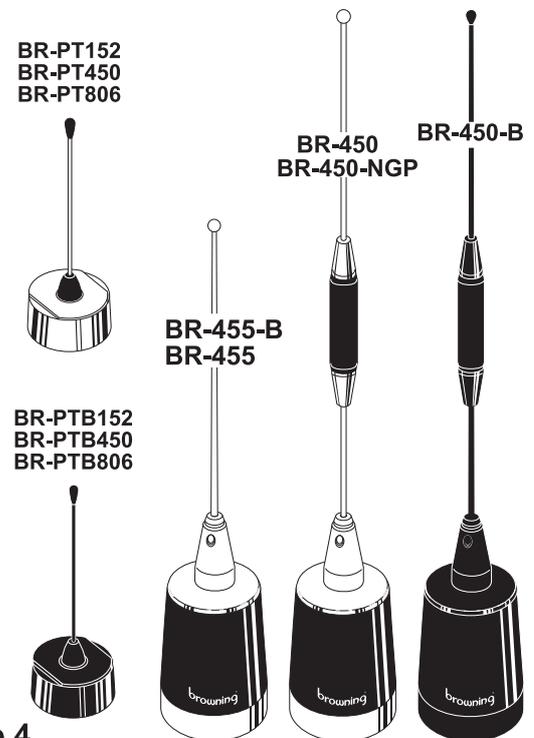
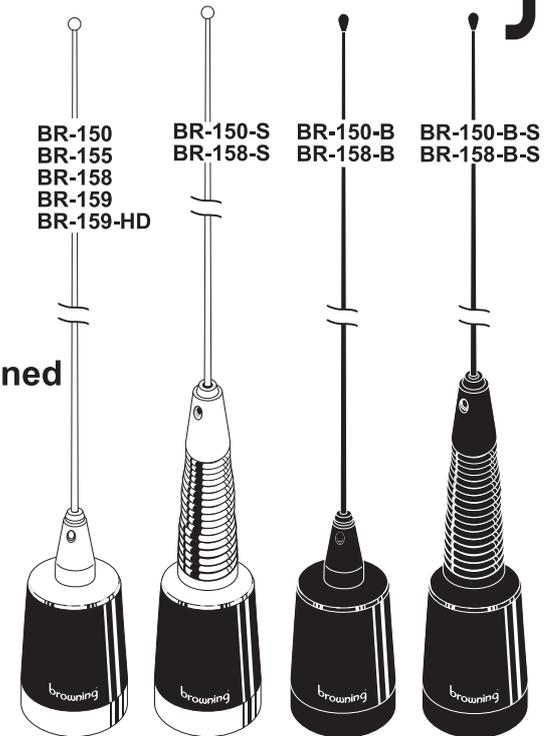
- Gold plunger type contact pin • Premium coil with metal base and top • 200 watts power rating
- Stainless steel tapered whip .100"(2.5mm) • Poly bag w/header card, UPC coded

Model	Description	Frequency	Gain	Height
BR-406-NGP	5/8 over 5/8 wave	406-430 MHz	5 dBd	38 1/2"
BR-430-NGP	5/8 over 5/8 wave	430-450 MHz	5 dBd	35"
BR-450-NGP	5/8 over 5/8 wave	450-470 MHz	5 dBd	33"
BR-490-NGP	5/8 over 5/8 wave	490-512 MHz	5 dBd	30 1/2"

NMO 1/4 Wave Pre Tuned Nut Type (Tunable)

BR-PT152	Set at 152-162 MHz/Chrome
BR-PT450	Set at 450-470 MHz/Chrome
BR-PT806	Set at 806-896 MHz/Chrome
BR-PTB152	Set at 152-162 MHz/Black
BR-PTB450	Set at 450-470 MHz/Black
BR-PTB806	Set at 806-896 MHz/Black

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browning® NMO VHF Antennas

- Gold plunger type contact pin • Premium coil with metal base and top • 200 watts power rating
- Stainless steel tapered whip .100"(2.5mm) • Poly bag w/header card, UPC coded

NMO VHF 3 dBd Antennas

Model	Description	Frequency	Gain	Whip
BR-190 BR-190-S	5/8 wave w/spring	144-174 MHz	3 dBd	49" .100"(2.5mm)
BR-160 BR-160-S	5/8 wave w/spring	144-174 MHz	3 dBd	49" .100"(2.5mm)
BR-162	5/8 wave	200-260 MHz	3 dBd	37" .100"(2.5mm)

NMO No-Ground Plane 2.4 dBd Gain, 5 MHz Band Width

BR-165 BR-165-S	1/2 wave w/spring	132-174 MHz	2.4 dBd	49 7/16" .100"(2.5mm)
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NMO Wideband : 24 MHz VHF / 100 MHz UHF

BR-161	1/4 wave	132-970 MHz	Unity	19 3/4" .100"(2.5mm)
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NMO UHF Antennas

- Gold plunger type contact pin • Premium coil with metal base and top • 200 watts power rating
- Stainless steel tapered whip .100"(2.5mm) • Poly bag w/header card, UPC coded

Model	Description	Frequency	Gain	Height
BR-173	5/8 over 5/8 wave	450-470 MHz	5.5 dBd	35"
BR-173-A	5/8 over 5/8 wave	406-430 MHz	5.5 dBd	35"
BR-173-B	5/8 over 5/8 wave	430-450 Mhz	5.5 dBd	35"
BR-173-D	5/8 over 5/8 wave	470-490 Mhz	5.5 dBd	35"
BR-173-E	5/8 over 5/8 wave	490-512 MHz	5.5 dBd	35"
BR-173-S	w/spring	450-470 MHz	5.5 dBd	33 1/4"
BR-177	5/8 over 1/2 wave	445-470 MHz	4.5 dBd	31"
BR-174	5/8 wave	450-470 MHz	3 dBd	10 3/4"
BR-176-S	5/8 wave w/spring	450-470 MHz	3 dBd	13"

NMO No-Ground Plane - 20 MHz Band Width

BR-175	1/2 wave	430-490 MHz	2.4 dBd	11 1/2"
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NMO Amateur Dual Band Antenna

- Wide band • Pre Tuned • NMO mounting

BR-180	1/2 wave 5/8 over 5/8 wave	144-148 MHz 430-450 MHz	2.4 dBd 5.5 dBd	37 1/2"
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NMO 800-900 MHz Antenna

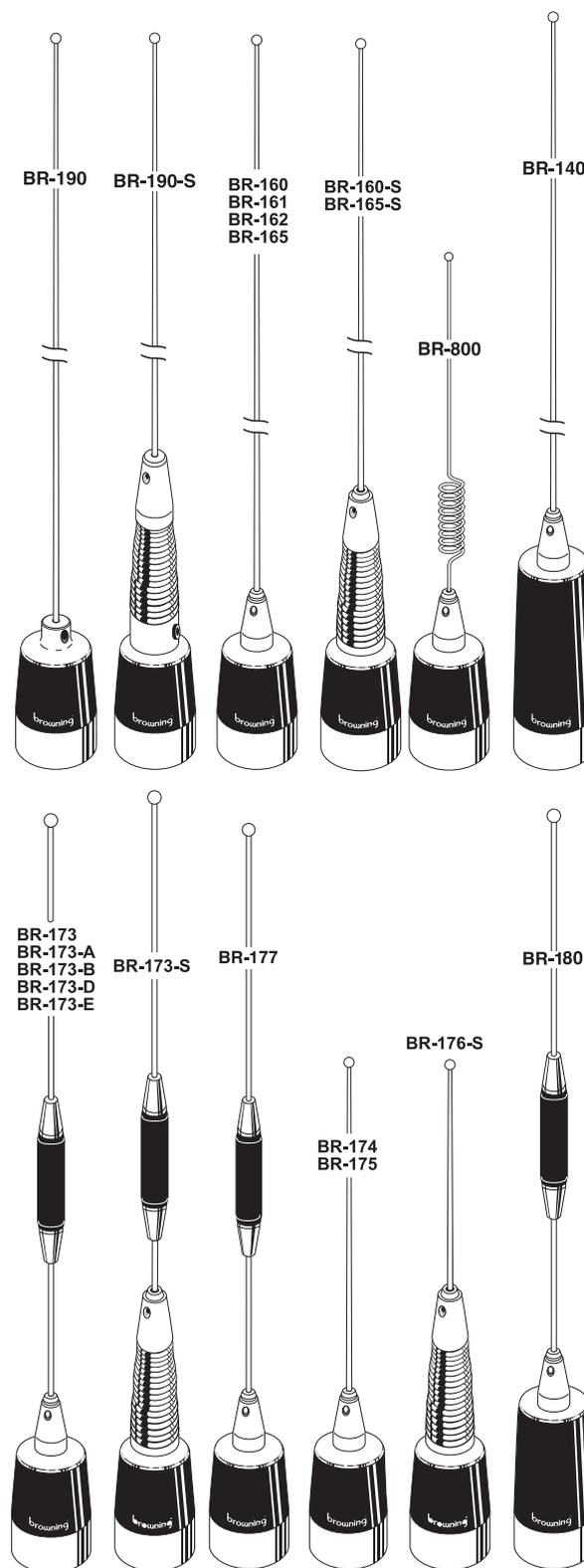
- Wideband • Pre Tuned • NMO mounting

BR-800	5/8 over 1/4 wave	800-900 MHz	3 dBd	11 1/2"
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NMO Low Band Antenna

- DC ground • Shunt fed base load • Can be used on magnet

Model	Description	Frequency	Gain	Whip
BR-140	1/4 wave	26.5-30 MHz	Unity	49" .100"(2.5mm)



NMO 3/4" Hole Mounts

- Standard thickness mounting • Solid brass w/gold contact pin
- Poly bag w/header card for display - UPC coded
- 17 ft. RG-58A/U tinned copper braid 95% & stranded tinned copper center conductor

BR-1010 No-connector
BR-1010-UHF UHF Male PL-259 connector installed

- 17 ft. RG-58A/U bare copper braid 95% & solid bare copper center conductor

BR-1011 No-connector
BR-1011-MUHF Mini-UHF Male connector installed
BR-1011-FME FME Female connector installed

- 17 ft. low loss RG-58A/U tinned double shield 95% braid + aluminum foil & stranded tinned copper center conductor

BR-1251 No-Connector
BR-1251-MUHF Mini-UHF Male connector installed
BR-1250 UHF Male w/molded strain relief installed

NMO 3/4" Hole Mounts w/BR-195 Cable

- Standard thickness mounting • Solid brass w/gold contact pin
- 17 ft. super low loss BR-195 cable (see page 22 for specs)
- BR-195 cable uses standard RG-58 connectors
- Nickel plated solid brass installed connectors w/gold contact pins • Bulk packaging

BR-362 No-connector
BR-362-UHF UHF Male w/molded strain relief installed
BR-362-MUHF Mini-UHF Male connector installed
BR-362-FME FME Female connector installed

High Frequency Fully Shielded 3/4" NMO Hole Mounts

- Fully enclosed/fully shielded zinc housing • Fully weatherized
- Solid brass NMO • Gold contact pin
- Nickel plated solid brass installed connectors w/gold contact pins

- 17 ft. low loss double shielded RG-58A/U w/stranded center
- Poly bag w/header card for display - UPC coded

BR-1258 No-Connector
BR-1258-UHF UHF Male PL-259 connector installed
BR-1258-MUHF Mini-UHF Male connector installed
BR-1258-BNC BNC Male connector installed

- 17 ft. super low loss BR-195 cable (see page 22 for specs) • Bulk packaging

BR-364 No-Connector
BR-364-UHF UHF Male PL-259 connector installed
BR-364-MUHF Mini-UHF Male connector installed
BR-364-FME FME Female connector installed

High Frequency Fully Shielded 3/4" NMO Hole Mounts

- Fully enclosed/fully shielded zinc housing • Fully weatherized
- Solid brass NMO • Gold contact pin
- 17 ft. super low loss BR-200 cable (see page 22 for specs)
- Crimp connectors - silver plated, solid brass, gold contact pin • Bulk packaging

Standard NMO Small Contact Pin - to 3 GHz

BR-367 No-Connector
BR-367LUHF UHF Male crimp/solder conn. loose
BR-367LMUHF Mini-UHF Male crimp conn. loose
BR-367LMUHFF Mini-UHF Female crimp conn. loose
BR-367LBNC BNC Male crimp conn. loose
BR-367LBNCFF BNC Female crimp conn. loose
BR-367LBNCRP BNC Male reverse polarity crimp conn.loose
BR367LBNCFRP BNC Female reverse polarity crimp con.loose
BR-367LTNC TNC Male crimp conn. loose
BR-367LTNCF TNC Female crimp conn. loose
BR-367LTNCRP TNC Male reverse polarity crimp con. loose
BR367LTNCFRP TNC Female reverse polarity crimp con. loose
BR-367LSMA SMA Male crimp conn. loose

High Frequency Female Contact Pin NMO - to 6 GHz

BR-368 No-Connector
BR-368LUHF UHF Male crimp/solder conn. loose
BR-368LMUHF Mini-UHF Male crimp conn. loose
BR-368LMUHFF Mini-UHF Female crimp conn. loose
BR-368LBNC BNC Male crimp conn. loose
BR-368LBNCFF BNC Female crimp. conn. loose
BR-368LBNCRP BNC Male reverse polarity crimp conn. loose
BR368LBNCFRP BNC Female reverse polarity crimp. con.loose
BR-368LTNC TNC Male crimp conn. loose
BR-368LTNCF TNC Female crimp conn. loose
BR-368LTNCRP TNC Male reverse polarity crimp.con. loose
BR368LTNCFRP TNC Female reverse polarity crimp con. loose
BR-368LSMA SMA male crimp conn. losse



BR-1010 SERIES
BR-1011 SERIES
BR-1251 SERIES
BR-362 SERIES



BR-1258 SERIES
BR-364 SERIES
BR-367 SERIES



BR-368 SERIES

3/4" Hole NMO L Bracket

Poly bag w/ header card for display • UPC coded

Model	Description
BR-34	Stainless steel for trunk/fender groove
BR-34-B	Black stainless steel for trunk/fender groove



15 AMP • 250 Watts

Land Mobile Class Noise Filter

Heavy Duty Suppression of Alternator and Ignition Noise

High Inductance Iron Core Coil
10,000 MFD Bypass Electrolytic Capacitor
Poly bag w/ header card for display UPC coded



Model
BR-FILTER

NMO Magnet Mounts

3 5/8" NMO Magnet Mounts w/ Rubber Boot

- Brass NMO w/gold contact pin • Soft rubber boot on magnet for scratch protection
- Poly bag w/header card for display - UPC coded

- 17 ft. RG-58A/U tinned copper braid 95%, stranded tinned copper center conductor

BR-1030-UHF Chrome zinc housing - UHF PL-259
BR-1035-UHF Black zinc housing - UHF PL-259

- 17 ft. RG-58/U bare copper braid 95%, solid insulation, solid copper center conductor

BR-1030-MUHF Chrome zinc housing - Mini-UHF
BR-1030-BNC Chrome zinc housing - BNC Male
BR-1030-SMA Chrome zinc housing - SMA Male

BR-1035-MUHF Black zinc housing - Mini-UHF
BR-1035-BNC Black zinc housing - BNC Male
BR-1035-SMA Black zinc housing - SMA Male

3 5/8" NMO Magnet Mounts w/ Rubber Boot - Double Shield RG-58

- 17 ft. low loss RG-58A/U tinned double shield 95% braid + aluminum foil
- Brass NMO w/gold contact pin • Poly bag w/header card • UPC coded

BR-316R Chrome zinc housing - UHF PL-259
BR-316R-MUHF Chrome zinc housing - Mini-UHF
BR-317R Black zinc housing - UHF/ PL-259
BR-317R-MUHF Black zinc housing - Mini-UHF

3 5/8" NMO Magnet Mounts w/ Rubber Boot - BR-195

- 17 ft. super low loss BR-195 cable (see page 22 for specs)
- Brass NMO w/gold contact pin
- Poly bag w/header card for display - UPC coded

BR-346R Chrome zinc housing - UHF PL-259
BR-346R-MUHF Chrome zinc housing - Mini-UHF
BR-347R Black zinc housing - UHF PL-259
BR-347R-MUHF Black zinc housing - Mini-UHF

5" Black NMO & UHF Magnet Mounts - Double Shield RG-58

- 17 ft. low loss RG-58 A/U tinned double shield 95% braid + aluminum foil
- Brass NMO w/ gold contact pin • Poly bag w/header card • UPC coded

BR-322 NMO Black steel housing - PL-259
BR-322-MUHF NMO Black steel housing / Mini-UHF
BR-354 UHF Black steel housing - PL-259

NMO Trunk Mounts

- Stainless mount • Brass NMO w/gold contact pin • Poly bag w/header card - UPC coded

- 17' low loss RG-58A/U tinned double shield 95% braid + aluminum foil

BR-311 Fits up to 3/8" surface/ UHF/ PL-259
BR-311-MUHF Fits up to 3/8" surface/ Mini-UHF

BR-314 Adjustable base - UHF/ PL-259
Fits up to 3/16" surface

- 17 ft. RG-58A/U tinned copper braid 95% & stranded tinned copper center conductor

BR-1020-UHF Fits up to 3/8" surface - UHF/ PL-259
BR-1020-MUHF Fits up to 3/8" surface/ Mini-UHF

Adjustable Trunk Mount

- 17 ft. RG-58A/U tinned copper braid 95% & stranded tinned copper center conductor

- Easy screw off UHF PL-259 for small hole installation

- FME Female attached with easy screw off FME Male to UHF Male PL-259 adaptor

BR-1024-UHFE UHF Male PL-259 connector
Fits up to 3/8" surface

browning®

BR-1030 SERIES
BR-316R SERIES
BR-346R SERIES

BR-1035 SERIES
BR-317R SERIES
BR-347R SERIES



BR-322
BR-322-MUHF



BR-354



BR-311 SERIES
BR-1020 SERIES



BR-314



BR-1024-UHFE



NMO VHF 3 dBd Gain

- End fed 5/8 wave • 200 watts power rating
- Gold plunger type contact pin • Stainless steel tapered whip

Black Coil

Model	MHz	Whip
1150 1150-S	144-174 MHz	49" .100"(2.5mm) 1150 w/spring #1214-B
1150-132	132-174 MHz	55" .100"(2.5mm)
1150-B 1150-B-S	144-174 MHz	1150 w/black 49" .100"(2.5mm) 1150-B w/spring #1214-B

Black Coil w/Metal Base

1151	134-174	53" .118"(3mm)
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Premium Coil w/Metal Base & Top

1153 1153-S	136-174	53" .118"(3mm) 1153 w/spring #1215
1152	200-260	37" .100"(2.5mm)

No-Ground Plane, 2.4 dBd gain, 1/2 wave, 5 MHz Band Width

1155	132-174	49 1/4" .118"(3mm)
1157	200-250	29 1/2" .100"(2.5mm)

No-Ground Plane, 2.4 dBd Gain, 1/2 Wave, 26.5 MHz Band Width

1159 1159-HD	133-182	43" .118"(3mm) 43" .142"(3.6mm)
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No-Ground Plane, 4.1 dBd Gain, 6/8 Wave, 38 MHz Band Width No Tuning • Pre Tuned

- Poly bag w/header card, UPC coded

1159-WB	136-174	54" .142"(3.6mm) w/center load
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140-175 MHz Land Mobile Magnet Kit

3 dBd Gain • 5 MHz Bandwidth • 5/8 Wave

• 3 1/2" (89mm) Magnet • 15 Ft. RG-58A/U Cable

- 49" (1245 mm) Stainless Steel .100"(2.5mm) Whip • Chromed Solid Brass Ferrule

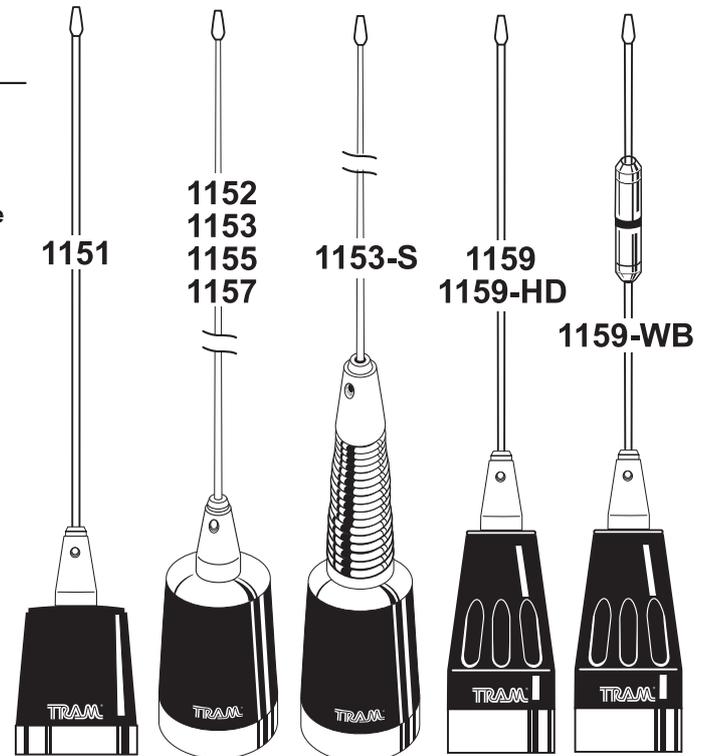
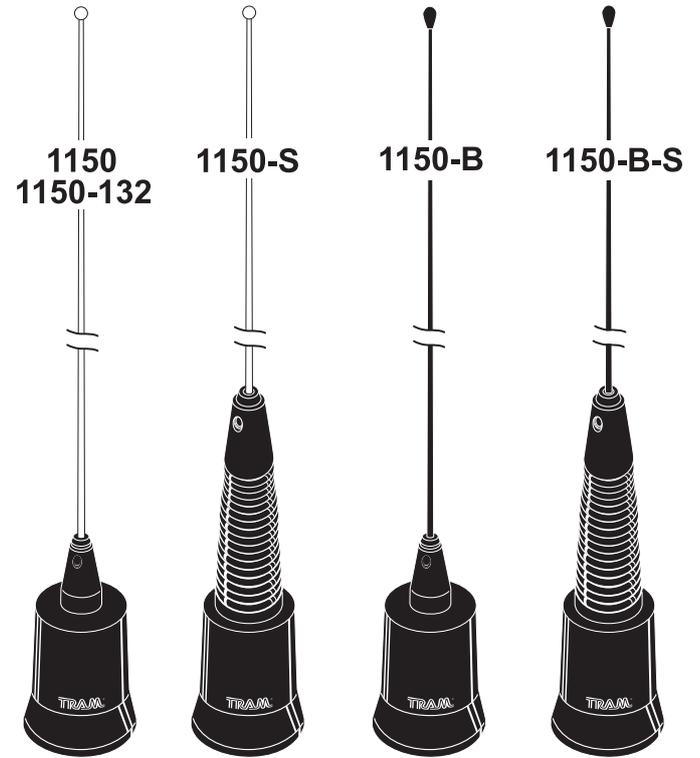
One Piece Magnet and Coil Housing



Poly bag w/header card, UPC coded

**Model
#1154
w/ PL-259**

**Model
#1154-BNC
w/ BNC**





NMO Mount UHF Gain Antennas

- 200 watts power rating
- Gold plunger type contact pin

Premium Coil w/Metal Base and Top 5/8 over 5/8 Wave

Model	MHz	Gain	Height
1173	450-470	5.5 dBd	35"

Coil w/Metal Base 5/8 Over 1/2 Wave

1177	445-470	5 dBd	31"
1177-A	406-430	5 dBd	33"
1177-B	430-450	5 dBd	32"
1177-D	470-490	5 dBd	29"
1177-E	490-512	5 dBd	28"

Premium Coil w/Metal Base and Top - 5/8 Wave

1174	450-470	3 dBd	13 1/2"
1174-A	406-430	3 dBd	15 1/2"
1174-B	430-450	3 dBd	14 1/4"
1174-D	470-490	3 dBd	13 1/4"
1174-E	490-512	3 dBd	13"

No-Ground Plane Premium Coil 1/2 Wave

1175	450-490	2.4 dBd	13 1/2"
1175-A	406-430	2.4 dBd	14 1/2"
1175-B	430-450	2.4 dBd	14 5/8"
1175-E	490-512	2.4 dBd	13"

438-485 MHz Land Mobile Magnet Kit

4.5 dBd Gain • 20 MHz Bandwidth

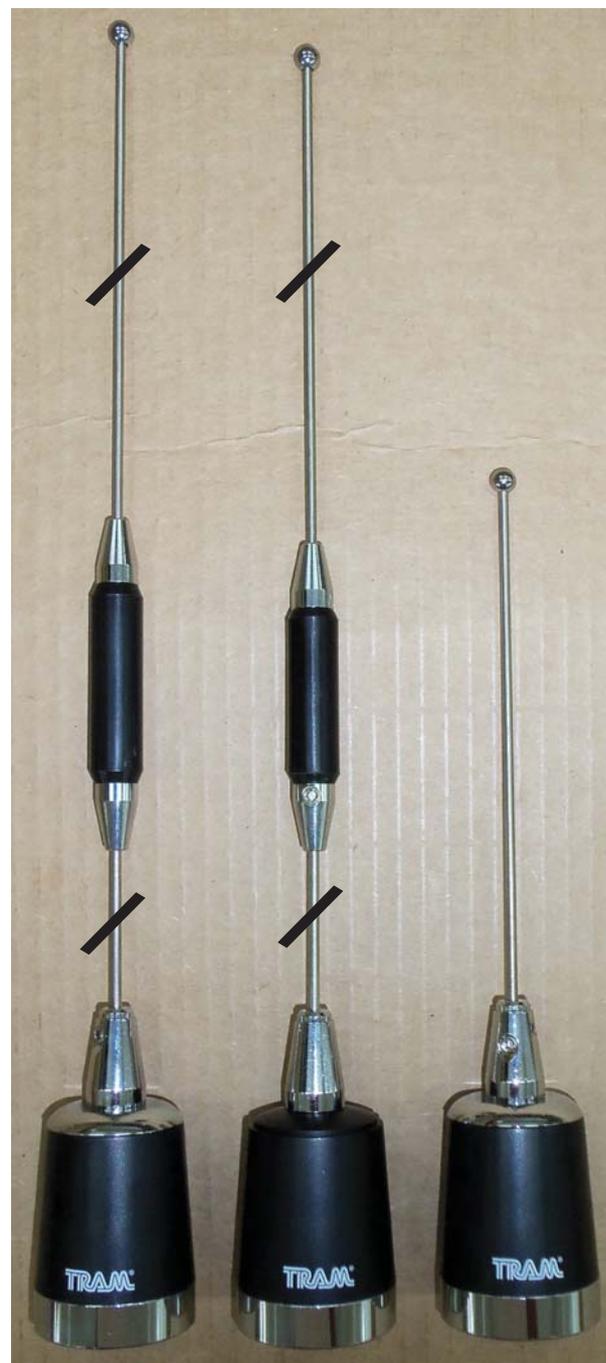
- 5/8 Over 1/2 Wave w/Center Loading Coil
- 29" (737 mm) Stainless Steel .100" (2.5mm) Whip
- 15 Ft. (4.5m) RG-58A/U Cable w/UHF PL-259

3 1/2" (89mm) Magnet • Chromed Solid Brass Ferrule

One Piece Magnet and Coil Housing

Poly bag w/header card, UPC coded

Model 1170



1173

1177

1174
1175



Dual Band NMO Mounting

Gold plunger type contact pin

Model	MHz	Gain	Height
1180	144-148 430-450	3 dBd 6 dBd	37 1/2"
1182	150-158 450-470	3 dBd 6 dBd	36 1/2"
1181	140-170 430-470	Unity 2.5 dBd	18 1/2"

(# 1181 in poly bag w/header card)

Dual Band 3/8" - 24 Thread Mounting

1184	140-170 430-470	Unity 2.5 dBd	17"
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Dual Band 3" Magnet Kit

• 12' RG-58/U and PL-259 - Poly bag w/header card, UPC coded

1185	144-148 435-450	Unity 2.5 dBd	19"
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Glass Mount w/17' RG-58/U and PL-259

• Poly bag w/header card, UPC coded

Model	MHz	Gain	Height
1187 (bulk)	450-470	4.5 dBd	28" 1/2
1189	150-158	2.5 dBd	29"
1190 (bulk)	144-148	2.5 dBd	29"
1191	144-148 440-450	2.5 dBd 4.5 dBd	28" 1/2
1192	150-154 450-470	2.5 dBd 4.5 dBd	28" 1/2

Glass Mount w/17' RG-58/U and PL-259

• Poly bag w/header card, UPC coded

1198	CB/Weather	Unity	28"
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Glass Mount w/17' RG-58/U and BNC

• Scanner antenna • Poly bag w/header card, UPC coded

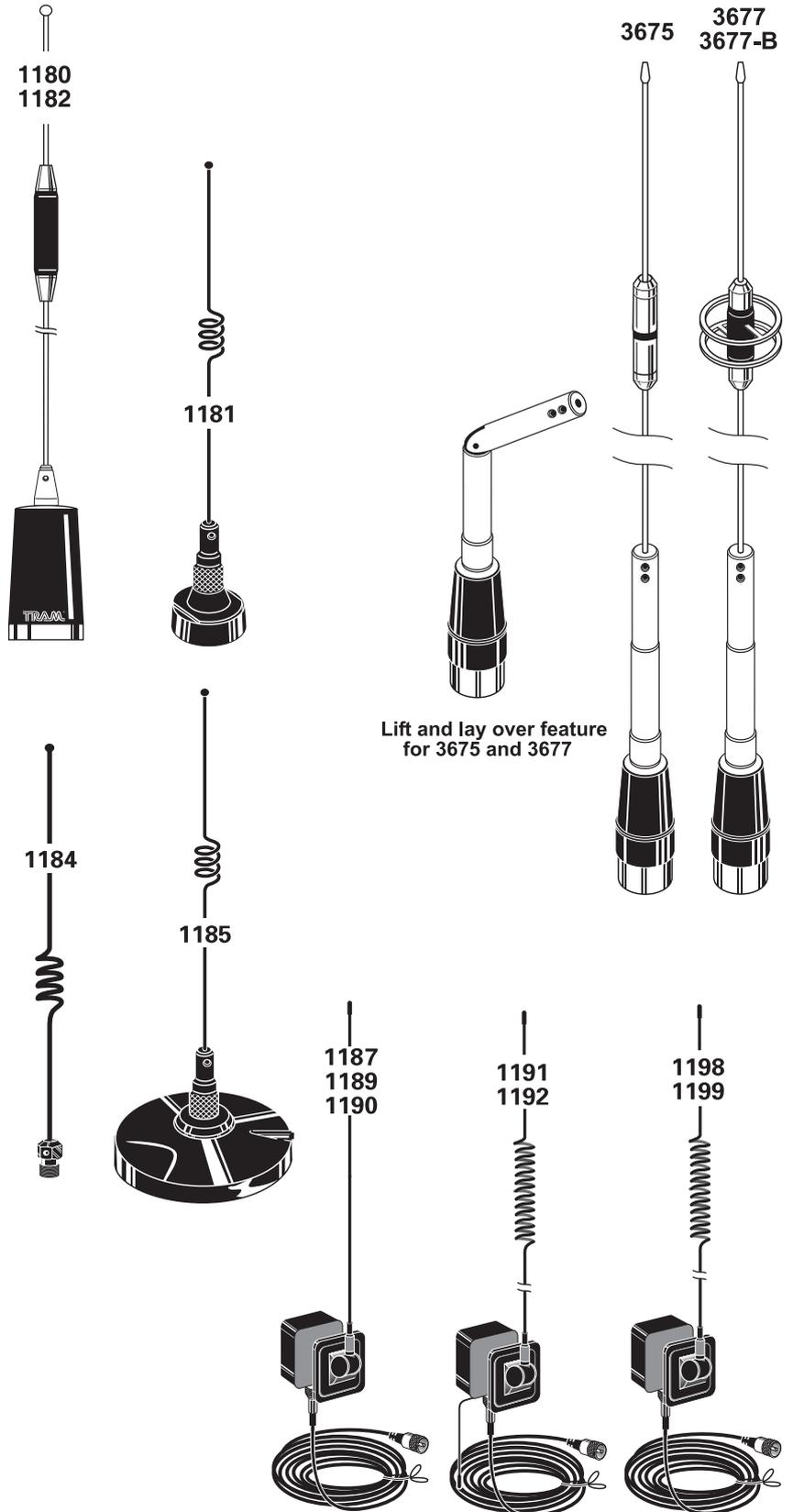
1199	25-1300	28"
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UHF Mount - VHF Antennas

VHF 30 MHz Wide Band Width

• 4.1 dBd gain • Lay-Over antenna whip • No-Tuning • DC ground 3/4 wave
• Poly bag w/header card, UPC coded

3675	Chrome	144-174	51"
3677	Chrome	144-174	51"
3677-B	Black	144-174	51"





NMO Quarter Wave Antennas

- 200 watts power rating
- Gold plunger type contact pin

DC Ground, Shunt Fed Base Load

Model	MHz	Whip
1140	26.5-30	49" .100"(2.5mm)
1141	30-35	49" .100"(2.5mm)
1142	34-40	49" .100"(2.5mm)
1143	40-50	49" .100"(2.5mm)
1144	47-54	49" .100"(2.5mm)

Low Profile Wide Band

- Poly bag w/header card, UPC coded

1115	136-940	20 1/2" .100"(2.5mm)
1115-S	1115 w/spring	
1115-B	136-940	20 1/2" .100"(2.5mm)
1115-B-S	1115-B w/spring	
1116	108-970	26 3/8" .100"(2.5mm)
1118-B	136-940	19 1/2" .100"(2.5mm)

Pre Tuned Chrome Nut Type

- Poly bag w/header card, UPC coded

1120 (bulk)	144-152	18 1/2"
1121	150-162	17 1/2"
1126	410-490	5 1/2"
1128	800-900	2 3/4"

Pre Tuned Black Nut Type

- Poly bag w/header card, UPC coded

1121-B	150-162	17 1/2"
1126-B	410-490	5 1/2"
1128-B	800-900	2 3/4"

Quarter Wave Magnet Kits

- 12 Ft. RG-58 A/U w/PL-259 • Poly bag w/header card, UPC coded

1100	136-512	20 1/2" .100"(2.5mm)
1100-Black	136-512	20 1/2" .100"(2.5mm)
1101 (bulk)	144-148	19" .100"(2.5mm)
	220-225	12" .100"(2.5mm)
	440-450	6" .100"(2.5mm)

- 12 Ft. RG-58 A/U w/Mini-UHF • Bulk packaged

1100-MUHF	136-174	20 1/2" .100"(2.5mm)
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3/8" - 24 Thread Quarter Wave

1107	27-54	102" stainless steel 2-piece construction	sold in tubes of 12 only
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1107-Ferrule Ferrule for 1107

1108	26-28	102" stainless steel 1-piece construction	sold in tubes of 12 only
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806-896 MHz Antennas Pre Tuned NMO Mounting w/Black Kote Finish

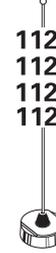
- Gold plunger type contact pin

1800	3 dBd Gain 5/8 Over 1/4 Wave	13 5/8" Tall open collinear
1802	3.5 dBd Gain 5/8 Over 1/2 Wave	14" Tall closed collinear

1140
1141
1142
1143
1144



1120
1121
1126
1128



1121-B
1126-B
1128-B



1118-B



1115
1116



1115-S



1115-B



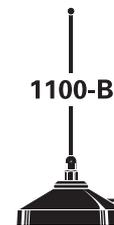
1115-B-S



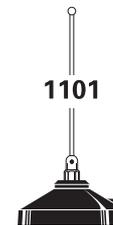
1100
1100-MUHF



1100-B



1101



1800



1802



1107-Ferrule



1107
1108



TRAM® GPS Antennas

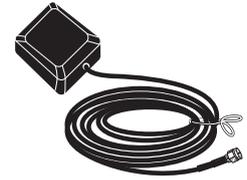
Model Description Connector

GPS-M-SMA	Magnet	SMA
GPS-M-MCX SMA	Magnet	SMA
GPS-M-BNC	Magnet	BNC
GPS-M-MCX	Magnet	MCX
GPS-NMO	NMO Mount Antenna	-

Electrical Specification

Input voltage	2.5 V - 5.5 V
Power consumption	at 3.0 V < 15 mA, at 5.0 V < 22 mA
Cable	17 Ft. RG 174
Antenna	1575.42 ± 1.023 MHz
Frequency range	90° : 2.0 dBj Min 20° : 5.0 dBj Min (Mounted on the 60 mm Square ground plane)
Gain	1575.42 ± 1.023 MHz
LNA	28 ± 4.5 dB (+ 25°C ± 5°C)
Frequency range	1.5 dB Max. (+ 25°C ± 5°C)
Gain	2.2 dB Max. (+ 85°C)
Noise figure	fo = 1575.42 MHz
Out band rejection	fo ± 20 MHz 7 dB Min
	fo ± 30 MHz 12 dB Min
	fo ± 50 MHz 20 dB Min
	fo ± 1000 MHz 30 dB Min
Output impedance	50
Output VSWR	2.0 Max

GPS-M-SMA
GPS-M-MCX SMA
GPS-M-BNC
GPS-M-MCX

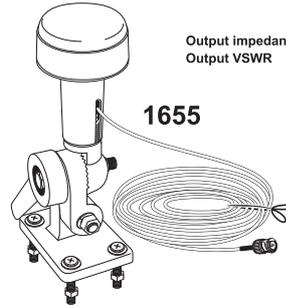


GPS-NMO



Model Description Gain

1655	• 1" - 14 thread mounting • 23 ft. RG-58A/U w/BNC connector w/#1631 nylon ratchet mount	30 dB
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Dual Band Mobile Systems GPS/VHF - GPS/UHF - GPS/Cellular

- For GPS - 1575.42 MHz
- 3/4" hole mount • 17 ft. RG-58U • 17 ft. RG-174 w/SMA installed

GPS/VHF or UHF 1/4 wave - 10 MHz Band Width

- 136-174 MHz or 450-470 MHz
- 20 1/2" stainless steel .100"(2.5mm) whip

Model Connectors

1560-L-CUHF	UHF Male crimp conn. loose
1560-L-MUHF	Mini-UHF Male crimp conn. loose
1560-MUHF	Mini-UHF Male conn. installed
1560-L-BNC	BNC Male crimp conn. loose
1560-BNC	BNC Male conn. installed
1560-L-TNC	TNC Male crimp conn. loose
1560-L-TNC	TNC Male crimp conn. loose
1560-L-N	N-Male crimp conn. loose

GPS/UHF 4 dB Gain - 10 MHz Band Width

- 445-470 MHz • 28 3/4" stainless steel .100"(2.5mm) whip

1565-L-CUHF	UHF Male crimp conn. loose
1565-L-MUHF	Mini-UHF Male crimp conn. loose
1565-L-BNC	BNC Male crimp conn. loose
1565-L-TNC	TNC male crimp conn. loose
1565-L-N	N male crimp conn. loose

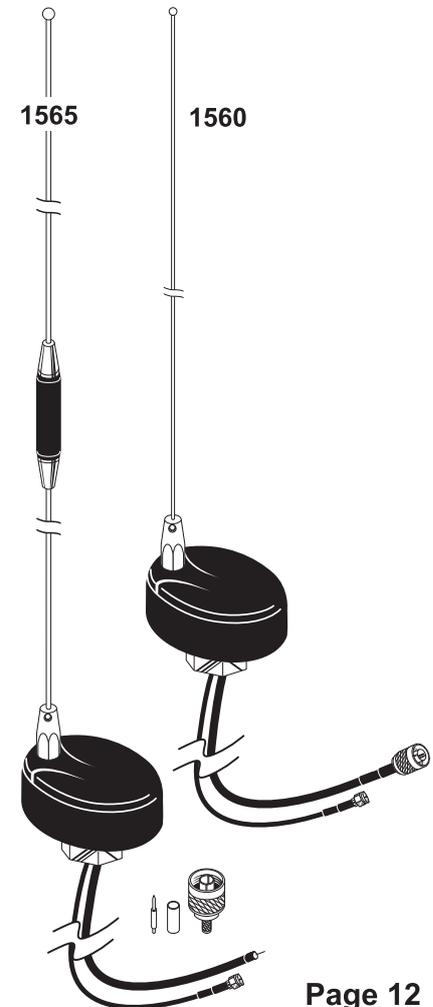
GPS/ 800-900 or 890-970 MHz • 3.5 dBd Gain 100 MHz Band Width - SWR < 1.3:1

- Pretuned to 800-900 MHz
- For 890-970 MHz, cut 7/8" (22mm) from bottom of whip
- 12 1/4" whip coils length

1573-L-N N male crimp conn. loose



1573



1565

1560

TRAM[®] Marine Antennas

• All antennas in poly bag w/ header card, UPC coded

VHF Marine Antennas - Pre Tuned for All Marine Band Frequencies

Model	Description	Gain	Termination
1600-HC	<ul style="list-style-type: none"> • Low profile bottom loaded coil • 35" 17-7 PH stainless steel whip • DC ground shunt fed 1/2 wave • "L" bracket is supplied for mounting on sailboat mast 	6 dB (performance)	<ul style="list-style-type: none"> • SO-239 base also supplied w/15' RG-58 coax & PL-259 at both ends
1600-Coax 1600-Whip	<ul style="list-style-type: none"> • Replacement coax for #1600/1602 • 35" .100"(2.5 mm) whip for #1600 		
1602	<ul style="list-style-type: none"> • Same coil design as # 1600 but featuring "quick - disconnect" 35" tapered stainless steel whip from 5 mm to 2.5 mm 	6 dB (performance)	<ul style="list-style-type: none"> • SO-239 base also supplied w/15' RG-58 coax & PL-259 at both ends • Bulk packaged
1602-Whip 1602-QD	<ul style="list-style-type: none"> • Replacment whip for #1602 • Replacment whip adaptor for #1602 		
1607-HC	<ul style="list-style-type: none"> • 46" fiberglass antenna • Stainless steel hardware • Easy screw off PL-259 conn. for small hole installation • FME Female attached with easy screw off FME Male to PL-259 adaptor 	3 dBd	<ul style="list-style-type: none"> • Complete w/nylon ratchet mount for easy lay-down • 20 ft. RG-58 cable
1609-HC	<ul style="list-style-type: none"> • 46" fiberglass antenna • Stainless steel hardware • Easy screw off PL-259 conn. for small hole installation • FME Female attached with easy screw off FME Male to PL-259 adaptor 	3 dBd	<ul style="list-style-type: none"> • Complete w/stainless steel "L" bracket/ side/ rail/ mirror mount • 20 ft. RG-58 cable
1610-HC	<ul style="list-style-type: none"> • 5' fiberglass antenna • Center fed 1/2 wave w/brass & copper element 	3 dBd	<ul style="list-style-type: none"> • Complete w/nylon ratchet mount & 17' RG-58 coax w/PL-259
1620-HC	<ul style="list-style-type: none"> • 8' fiberglass antenna • Collinear phased 5/8 wave w/brass & copper element 	6 dBd	<ul style="list-style-type: none"> • Complete w/nylon ratchet mount & 15' RG-58 coax w/PL-259
1620-TUBE	# 1620 bulk packaged in shipping tube		
1630	• Upper stand-off bracket • Nylon w/insert for 1" or 1/2" antenna		
1631	• Replacement nylon ratchet mount		
1633	• Chrome plated stainless steel ratchet		
1636	• Chrome plated stainless steel rail mount w/handle		

CB Marine Antenna

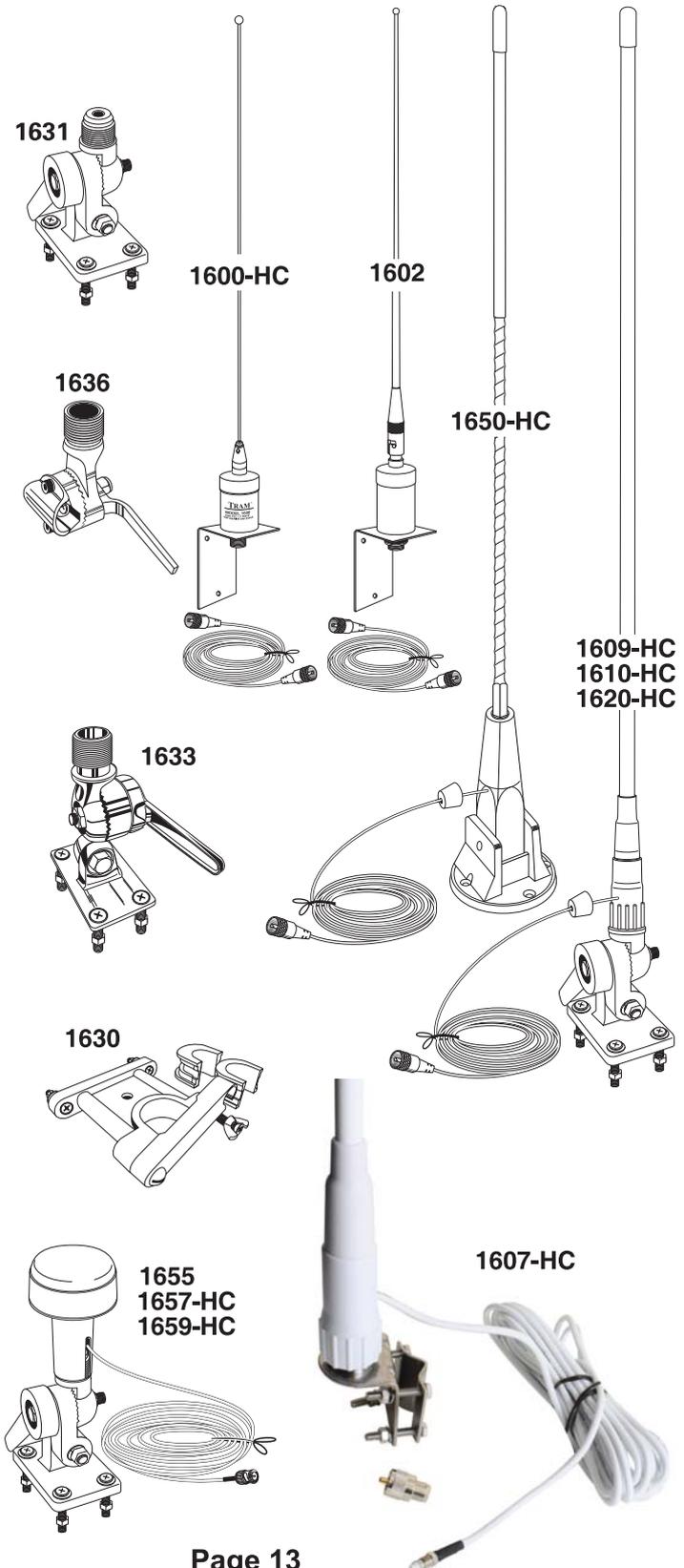
1650-HC	<ul style="list-style-type: none"> • 36" top load fiberglass • Nylon lift and lay mount w/leveling plate 	Unity	<ul style="list-style-type: none"> • 17' RG-58 Coax w/shunt and PL-259
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GPS Marine or Base Antenna

1655	<ul style="list-style-type: none"> • 1" - 14 thread mounting • 23 ft. RG-58 A/U w/BNC Male connector w/# 1631 nylon ratchet mount 	30 dB Gain	
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Marine Satellite Radio Antenna

1657-HC	<ul style="list-style-type: none"> • Compatible for use w/ XM & SIRIUS services • High performance on XM frequencies • Stainless steel hardware 		<ul style="list-style-type: none"> • Nylon ratchet mount for easy lay-down • 23 ft. RG-58 cable
1659-HC	<ul style="list-style-type: none"> • Specifically for use w/ SIRIUS service • High performance on SIRIUS frequencies • Stainless steel hardware 		<ul style="list-style-type: none"> • Nylon ratchet mount for easy lay-down • 23 ft. RG-58 cable



TRAM[®] Aluminum Base Antennas

- Radiator is constructed of aircraft quality aluminum for extended service life.
- Coils are hermetically sealed in a heavy duty nylon housing to assure low SWR in all weather.
- Adjust the length of radiators for covering 136-174/400-500 MHz without cutting.
- 200 watts power rating with verticle polarization • UHF (SO-239) connector with 50 Ohms impedance.
- Grounded 5/8 over 5/8 wave • Stainless hardware • Poly bag w/header card for display - UPC coded

Model	Description	Frequency Range MHz	Band Width MHz	Gain dBd
1400	10' (3 m) tall 20 1/2" (52 cm) radial length	136-174 MHz	5 MHz	6 dBd
1450	42" (1 m) tall 7 1/2" (19.5 cm) radials length	400-500 MHz	10 MHz	5 dBd

Broad Band Stainless Base 25-1300 MHz

- Wide band reception covering 25-1300 MHz • Rust free all stainless steel structure • SWR 1.5:1 Max.
- 1 3/8" (35 mm) maximum mast diameter • UHF (SO-239) connector • Bulk

1410	Transmit bands 144-220-440-900-1290 MHz Max power 200 watts 8 lower radials 32" (18 cm) 8 upper radials 10 1/2" (26 cm)
1411	Transmit bands 26-27-46-49-72-144 220-440-900-1290 MHz Max power 300 watts CB/200 watts VHF-UHF 6 lower radials 32" 2 lower radials 48"-52" adjustable 8 upper radials 10 1/2" Top whip length 55"

Base Ground Plane Kits

- 200 watts power rating • 100 MPH (48 m/sec) wind load • Easy installation on Any 2" (5 cm) pole or pipe.

UHF Female Mount to UHF Female (SO-239) Connector

- Includes mounting hardware & 20 1/2" (52 cm) ground plane radials to make a mobile antenna with UHF Male mounting into a ground plane base station • Bulk

1460 UHF to UHF (SO-239) ground plane kit

NMO Mount to UHF Female (SO-239) Connector

- Includes mounting hardware & 20 1/2" (52 cm) ground plane radials to make a mobile antenna with NMO mounting into a ground plane base station • Poly bag w/header card for display - UPC coded

1465 NMO to UHF (SO-239) ground plane kit

NMO Mount to N Female Connector

- Includes mounting hardware and 20 1/2" (52 cm) ground plane radials to make a mobile antenna with NMO mounting into a ground plane base station • Poly bag w/header card for display - UPC coded

1470 NMO to N female connector ground plane kit

Fixed Station Multiband Ceiling Mount Indoor Antenna

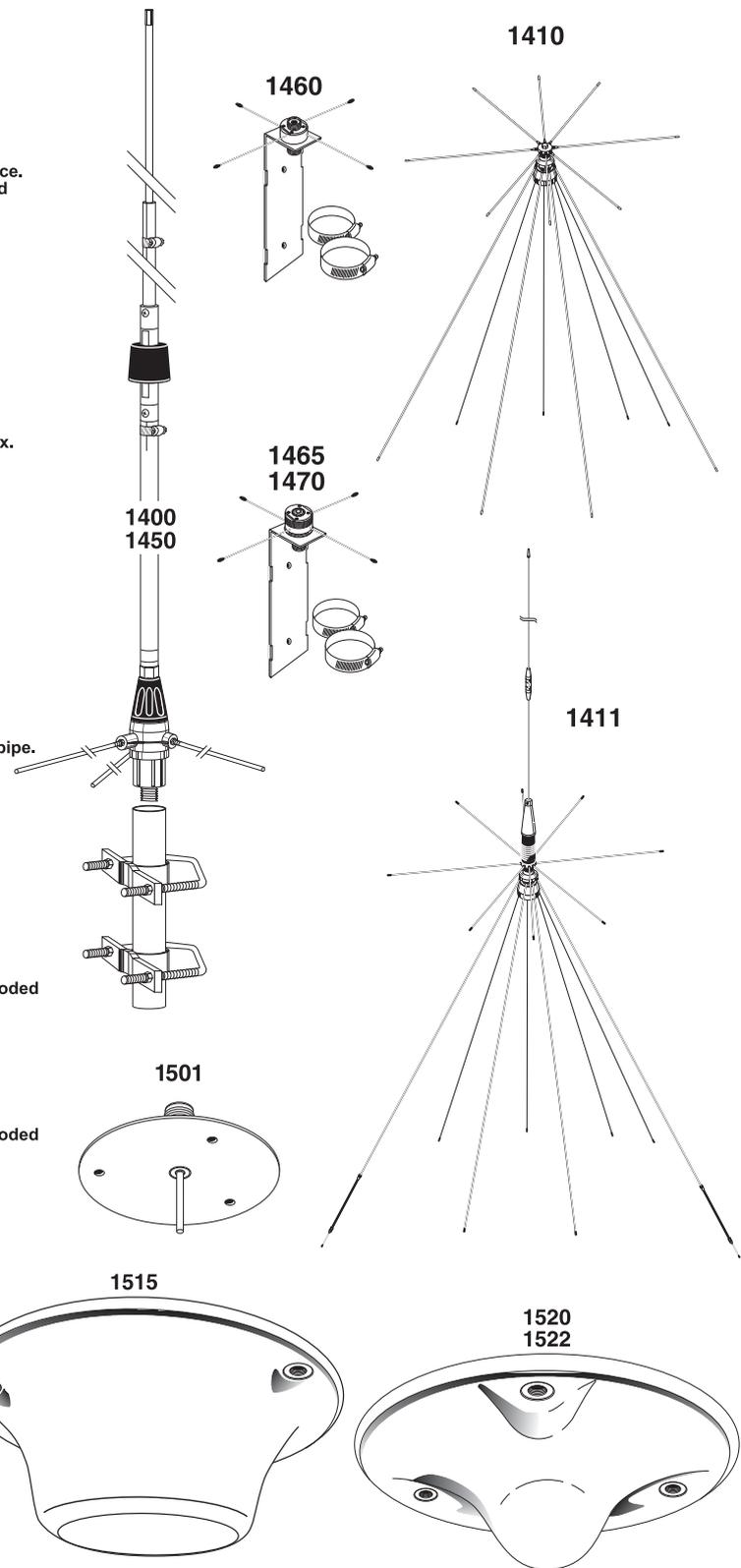
- Works on Trunking, Cellular, GSM 900 & 1800, ISM, DCS 1800, PCS 1900, DECT & UMTS system
- 1/4 wave ground plane • 50 watts • Unity gain • 50 Ohms • N-female connector
- 8" diameter • Bulk

Model	Frequency Range	Depth
1515	800-900/1710-2170 MHz	2 7/8"
1520	806-896/1710-3000 MHz	2 3/4"
1522	870-960/1710-3000 MHz	2 3/4"

PCS Fixed Station Ceiling Mount Indoor Antenna

- 1/4 wave omnidirection • 10 watts • 0 dBd 1/2 .15 dBd • 50 Ohm • N-Female connector
- 4 1/2" diameter (114 mm) • 1 1/2" high (31 mm) • Bulk

1501 1850-1990 MHz





Fiberglass Base Antennas

- High performance 200 watts power rating, low SWR & broad banded.
- In models with multiple sections there is a special design of the joint bracket to connect fiberglass tubing that enables the antenna to maintain the same strength as one.
- The radiator and coil are hermetically sealed in fiberglass tubing to assure low SWR in all weather.
- DC ground construction allows static dissipation for low noise ratio and maximum lightning protection. • Vertical polarization with 50 ohms impedance.
- Mast diameter accepted is 1 3/16" to 2 7/16" (30-62 mm) • UHF (SO-239) connector.
- Poly bag w/header card, UPC coded.

Model	Description	Frequency Range MHz	Band Width MHz	Gain dBd	Max Wind
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UHF Base

1485	39"(1.0m) tall single section 5/8 over 1/2 wave 3 elements 7"(19.5 cm) radial length	400-495 MHz	20 MHz	5 dBd	135 MPH (60 m/sec)
This antenna is pretuned to 460 MHz with a bandwidth of 450 to 470 MHz To tune to another frequency adjust to specified lengths on adjusting chart					
1486	5'3" (1.6 m) tall single section 5/8 wave 3 elements 7"(19.5 cm) radial length	406-512 MHz	10 MHz	6.5 dBd	135 MPH (60 m/sec)

VHF Base

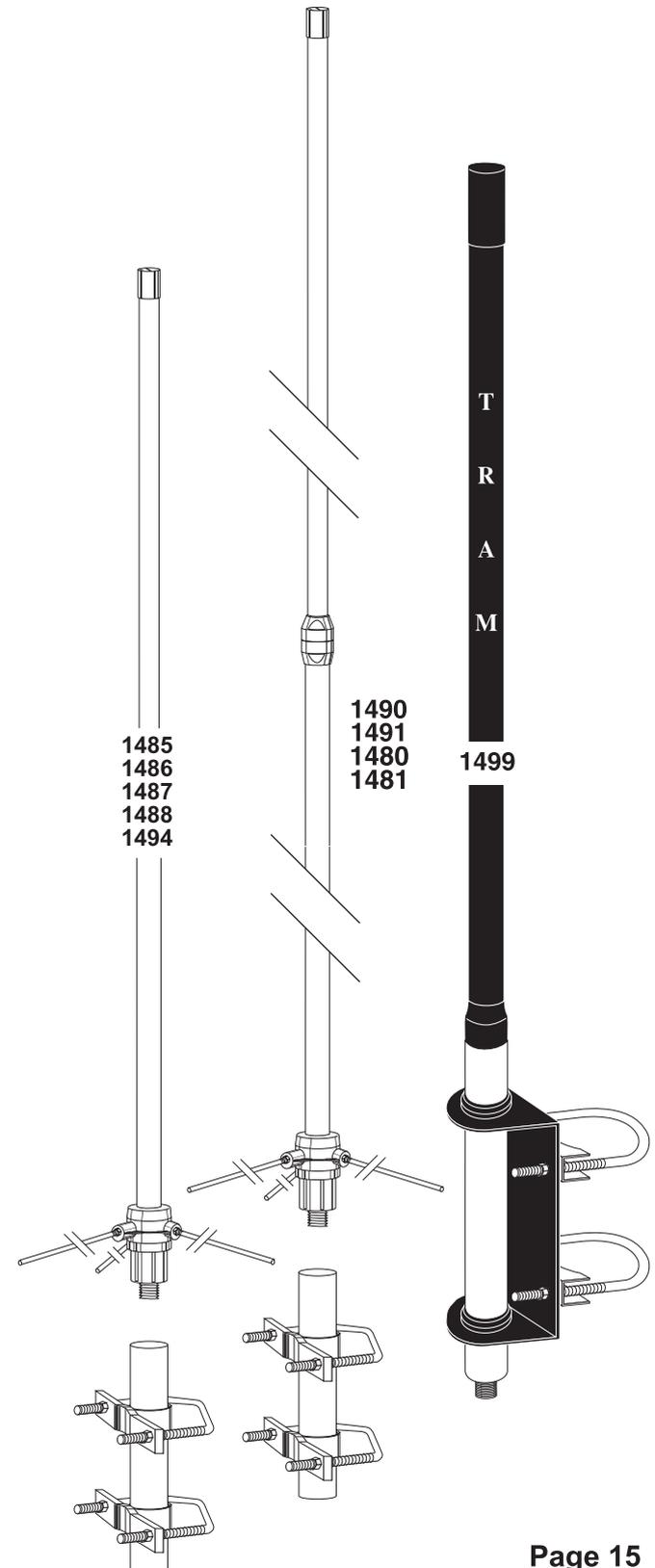
1487	4'10" (1.47 m) tall single section 5/8 wave 3 elements 20 1/2"(52 cm) radial length	134-184 MHz	5 MHz	4.5 dBd	135 MPH (60 m/sec)
1488	6'3" (1.9 m) tall single section 6/8 wave 20 1/2" (52cm) radial length	116-142 MHz		4.5 dBd	
1490	10'6" (3.2 m) tall 2 section 7/8 over 7/8 wave length 20 1/2"(52 cm) radial length	144-174 MHz	5 MHz	6.7 dBd	110 MPH (50 m/sec)
1491	14'10" (4.52 m) tall 3 section 5/8 wave 3 elements c-load 20 1/2" (52cm)radial length	144-174 MHz	5 MHz	7.8 dBd	90 MPH (40 m/sec)
1494	5' (1.52 m) tall single section 5/8 over 1/2 wave 20 1/2" (52 cm) radial length	220-350 MHz	5 MHz	4.5 dBd	135 MPH (60 m/sec)

Dual Band Base

Model	Description	Frequency Range MHz	Band Width MHz	Gain dBd	Max Wind
1480	8'4" (2.54 m) tall 2 section 5/8 wave 2 elements (2 m) & 5/8 wave 4 elements (70 cm) 20 1/2"(52 cm) radial length	144-148 MHz 430-450 MHz	4 MHz 20 MHz	6 dBd 8 dBd	110 MPH (50 m/sec)
1481	17' (5.18 m) tall 3 section 5/8 wave 3 elements c-load (2 m) 5/8 wave 8 elements c-load (70 cm) 20 1/2"(52 cm) radial length	144-148 MHz 430-450 MHz	4 MHz 20 MHz	8.3 dBd 11.7 dBd	90 MPH (40 m/sec)

No Ground Mini CB Base

- 3 ft. tall • 500 watts • UHF (SO-239) connector • Mast or attic mounting • Can be used for mobile vehicles also.





NMO 3/4" Hole Mounts High Frequency Fully Shielded NMO Mount Standard Thickness Mounting

- Low loss up to 1.5 GHz • Zinc diecast enclosed mount • Solid brass NMO ring
- Small gold contact pin

Model	Installed Connector	Coax Conductor	Description
1258	No-Conn.	Stranded	Mnt.w/17' RG-58
1258-24	No-Conn.	Stranded	Mnt.w/24' RG-58
1258-UHF	UHF/PL-259	Stranded	Mnt.w/17' RG-58
1259	No-Conn.	Solid	Mnt.w/17' RG-58
1259-24	No-Conn.	Solid	Mnt.w/24' RG-58
1259-FME	FME (female)	Solid	Mnt.w/17' RG-58
1259-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58
1259-SMA	SMA	Solid	Mnt.w/17' RG-58

Not Installed Connectors

1258-L-CUHF	Crimp UHF	Stranded	Mnt.w/17' RG-58
1258-L-MUHF	Mini-UHF	Stranded	Mnt.w/17' RG-58
1259-L-CUHF	Crimp UHF	Solid	Mnt.w/17' RG-58
1259-L-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58

NMO 3/4" Hole Mounts Standard Thickness Mounting

Solid Brass w/Gold Contact Pin • 0-1000 MHz

Model	Installed Connector	Coax Conductor	Description
1250	UHF/PL259	Stranded	Mnt.w/17' RG-58
1251	No-Conn.	Stranded	Mnt.w/17' RG-58
1251-24	No-Conn.	Stranded	Mnt.w/24' RG-58
1251-30	No-Conn.	Stranded	Mnt.w/30' RG-58
1251-MUHF	Mini-UHF	Stranded	Mnt.w/17' RG-58
1252	No-Conn.	Solid	Mnt.w/17' RG-58
1252-24	No-Conn.	Solid	Mnt.w/24' RG-58
1252-30	No-Conn.	Solid	Mnt.w/30' RG-58
1252-BNC	BNC	Solid	Mnt.w/17' RG-58
1252-FME	FME (female)	Solid	Mnt.w/17' RG-58
1252-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58
1252-SMA	SMA	Solid	Mnt.w/17' RG-58
1252-FSMA	SMA (female)	Solid	Mnt.w/17' RG-58
1252-TNC	TNC	Solid	Mnt.w/17' RG-58

1254 - - Mount Only

Not Installed Connectors

1251-L-CUHF	Crimp UHF	Stranded	Mnt.w/17' RG-58
1251-L-MUHF	Mini-UHF	Stranded	Mnt.w/17' RG-58
1252-L-CUHF	Crimp UHF	Solid	Mnt.w/17' RG-58
1252-L-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58

NMO 3/4" Hole Mounts • Fits 3/8" to 3/4" Hole

Standard Thickness Mounting

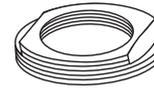
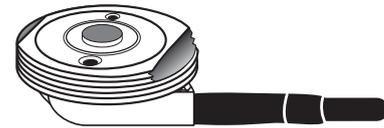
Solid Brass w/Gold Contact Pin • 0-1000 MHz

Model	Installed Connector	Coax Conductor	Description
2250	UHF/PL-259	Stranded	Mnt.w/17' RG-58
2251	No-Conn.	Stranded	Mnt.w/17' RG-58
2251-24	No-Conn.	Stranded	Mnt.w/24' RG-58
2251-30	No-Conn.	Stranded	Mnt.w/30' RG-58
2252	No-Conn.	Solid	Mnt.w/17' RG-58
2252-24	No-Conn.	Solid	Mnt.w/24' RG-58
2252-30	No Conn.	Solid	Mnt.w/30' RG-58
2252-BNC	BNC-Conn.	Solid	Mnt.w/17' RG-58
2252-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58
2252-N	N	Solid	Mnt.w/17' RG-58

2254 - - Mount Only

UHF 5/8" Hole Mounts

3251	UHF/PL-259	Stranded	Mnt.w/17' RG-58
3253	UHF/PL-259	Stranded	Mnt.w/17' RG-58



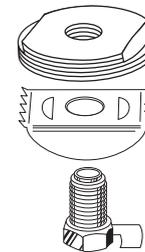
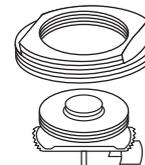
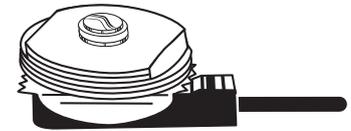
1258
1259
Series



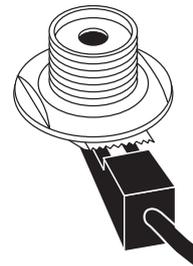
1250 Series



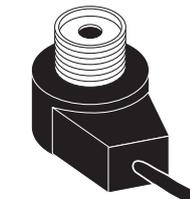
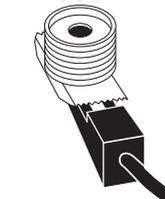
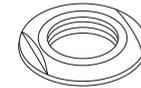
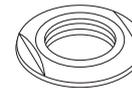
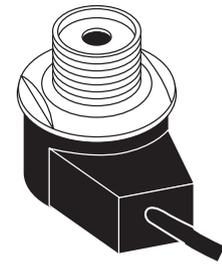
2250 Series



3251



3253





Magnet Mounts

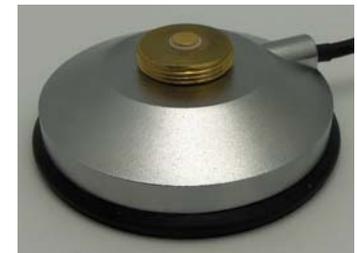
Magnets w/ Rubber Boot NMO Mount w/Gold Contact Pin • 17' RG-58 Coax

Model	Installed Connector	Coax Conductor	Description
1267R	UHF/PL-259	Stranded	5 1/2" Black ABS
1267R-MUHF	Mini-UHF	Solid	5 1/2" Black ABS
1267R-FME	FME (female)	Solid	5 1/2" Black ABS
1267R-BNC	BNC	Solid	5 1/2" Black ABS
1267R-TNC	TNC	Solid	5 1/2" Black ABS
1267R-SMA	SMA	Solid	5 1/2" Black ABS
1265R	UHF/PL-259	Stranded	5" Black ABS
1265R-FSMA	SMA (female)	Solid	5" Black ABS
1261R	UHF/PL-259	Stranded	3 5/8" Black zinc
1261R-FSMA	SMA (female)	Solid	3 5/8" Black zinc
1260R	UHF/PL-259	Stranded	3 5/8" Textured Chrome
1260R-FSMA	SMA (female)	Solid	3 5/8" Textured Chrome (1260R series does not show fingerprints)



1261R

1260R



Standard Magnets

NMO Mount w/Gold Contact Pin • 17' RG-58 Coax

1269	UHF/PL-259	Stranded	Black Triple 5" Mag.
1240	UHF/PL-259	Stranded	5" Chrome Steel
1240-MUHF	Mini-UHF	Solid	5" Chrome Steel
1240-FME	FME (female)	Solid	5" Chrome Steel
1239	UHF/PL-259	Stranded	3 1/2" Chrome Zinc
1237-MUHF	Mini-UHF	Solid	3 1/2" Chrome Zinc
1237-FME	FME (female)	Solid	3 1/2" Chrome Zinc
1237-BNC	BNC	Solid	3 1/2" Chrome Zinc
1237-TNC	TNC	Solid	3 1/2" Chrome Zinc
1237-SMA	SMA	Solid	3 1/2" Chrome Zinc
1237-FSMA	SMA (female)	Solid	3 1/2" Chrome Zinc
1235	UHF/PL-259	Stranded	3 1/4" Black Zinc
1233-MUHF	Mini-UHF	Solid	3 1/4" Black Zinc
1233-FME	FME (female)	Solid	3 1/4" Black Zinc
1233-BNC	BNC	Solid	3 1/4" Black Zinc
1233-TNC	TNC	Solid	3 1/4" Black Zinc
1233-SMA	SMA	Solid	3 1/4" Black Zinc
1233-FSMA	SMA (female)	Solid	3 1/4" Black Zinc

3240

240

1240



Magnets w/ Rubber Boot

UHF Mount (SO-239) • 17' RG-58 Coax

3267R	UHF/PL-259	Stranded	5 1/2" Black ABS
3265R	UHF/PL-259	Stranded	5" Black ABS

Standard Magnets

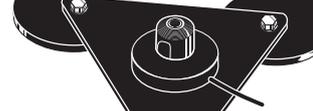
UHF Mount (SO-239) • 17' RG-58 Coax

3269	UHF/PL-259	Stranded	Black Triple 5" Mag.
3240	UHF/PL-259	Stranded	5" Chrome Steel
3239	UHF/PL-259	Stranded	3 1/2" Chrome Zinc



268
269

1235
1233



Magnets w/ Rubber Boot

3/8" - 24 Thread Mount • 17' RG-58 Coax

Model	Installed Connector	Coax Conductor	Description
267R	UHF/PL-259	Stranded	5 1/2" Black ABS
265R	UHF/PL-259	Stranded	5" Black ABS

Standard Magnets

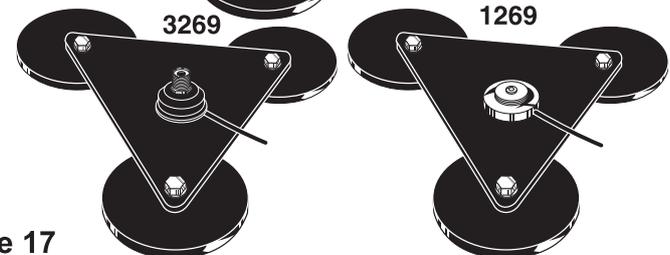
3/8" - 24 Thread Mount • 17' RG-58 Coax

269	UHF/PL-259	Stranded	Black Triple 5" Mag.
240	UHF/PL-259	Stranded	5" Chrome Steel
239	UHF/PL-259	Stranded	3 1/2" Chrome Zinc

Standard Magnets

3/8" - 24 Thread Mount • 18 Ft. RG-8X Coax

268	UHF/PL-259	Stranded	Black Triple 5" Mag.
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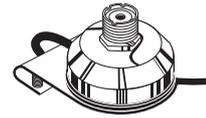


Trunk Mounts

NMO Mount w/Gold Contact Pin & 17' RG-58 Coax

Model	Installed Connector	Coax Conductor	Description
1246	UHF/PL-259	Stranded	Mini-stainless steel
1246-B	UHF/PL-259	Stranded	Mini-black koted stainless steel
1247-MUHF	Mini-UHF	Solid	Mini-stainless steel
1247-B-MUHF	Mini-UHF	Solid	Mini-black koted stainless steel
1247-FME	FME (female)	Solid	Mini-stainless steel
1247-B-FME	FME (female)	Solid	Mini-black koted stainless steel
1247-FSMA	SMA (female)	Solid	Mini-stainless steel

3246



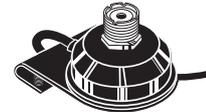
1246
1247-MUHF
1247-FME
1247-FSMA



UHF Mount (SO-239) w/17' RG-58 Coax

3246	UHF/PL-259	Stranded	Mini-stainless steel
3246-B	UHF/PL-259	Stranded	Mini-black koted stainless steel

3246-B



246-B



1246-B
1247-B-MUHF
1247-B-FME



3/8" - 24 Thread Mount w/17' RG-58 Coax

246-B	UHF/PL-259	Stranded	Mini-black koted stainless steel
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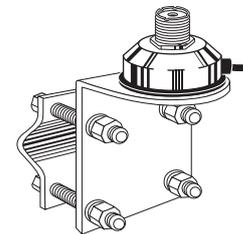
Mirror Mounts

NMO Stainless Steel Mirror Mounts

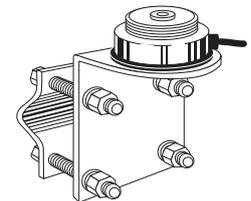
Poly Bag w/Header Card For Display - UPC Coded

Model	Installed Connector	Coax Conductor	Description
1249	UHF/PL-259	Stranded	Mnt.w/17' RG-58
1249-MUHF	Mini-UHF	Solid	Mnt.w/17' RG-58
1249-FME	FME (Female)	Solid	Mnt.w/17' RG-58
1249-SMA	SMA (Male)	Solid	Mnt.w/17' RG-58

3249



1249
1249-MUHF
1249-FME
1249-SMA

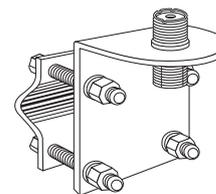


UHF Enclosed Stainless Steel Mirror Mount

Poly Bag w/Header Card For Display - UPC Coded

3249	UHF/PL-259	Stranded	Mnt.w/17' RG-58
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3270



UHF to UHF Stainless Steel Mirror Mount

3270



Accessories

Model	Description
1255	3/4" hole stainless steel L bracket
1255-13/16	13/16" hole stainless steel L bracket
1255-B	Black 3/4" hole stainless steel L bracket
1255-13/16-B	Black 13/16" hole stainless steel L bracket
1255-F	Flat 3/4" hole stainless steel bracket
1256	1/2" hole stainless steel L bracket
1257	3/8" hole stainless steel L bracket
1281	3/4" rubber hole plug
1281-HC	#1281 in poly bag w/header card for display-UPC coded
1284	2.5 mm ferrule (whip adaptors)
1284-B	2.5 mm black ferrule (whip adaptors)
1285	3.0 mm ferrule (whip adaptors)
1286	Set screw for aluminum CB antennas
1287	Hex wrench for aluminum CB antennas
1288	10-32T - 3/16" set screw for new ferrules and springs #1214 & #1215
1288-B	10-32T - 3/16" set screw black for new ferrules and springs #1214 & #1215
1289	3/32" hex wrench for new ferrules and springs #1214 & #1215
1290	NMO cap w/O-ring
1291	Gasket for NMO mounts
1292	Hex wrench
1293	Hex screw
1295	NMO to 3/8"-24 adaptor
1296	NMO to UHF mount adaptor
1298	O-ring for NMO hole mount
1299	Brass ring for hole mount
1299-2	Brass ring for #2254 hole mount

Replacement Whips Stainless Steel .100" (2.5mm)

BR-Whip-49	Stainless Steel 49" tapered
BR-Whip-B-49	Stainless Steel 49" black tapered
BR-Whip-55	55" tapered
470	51" tapered
474	45" tapered
1600-Whip	35" straight
479-19	19" straight
479-12	12" straight
479-6	6" straight

Replacement Whips Stainless Steel .118" (3 mm)

480	53" tapered
481	55" tapered
482	57" tapered
483	49 1/4" tapered
484	47 1/2" tapered
486	35" tapered
495	41 1/2" straight
496	35" straight

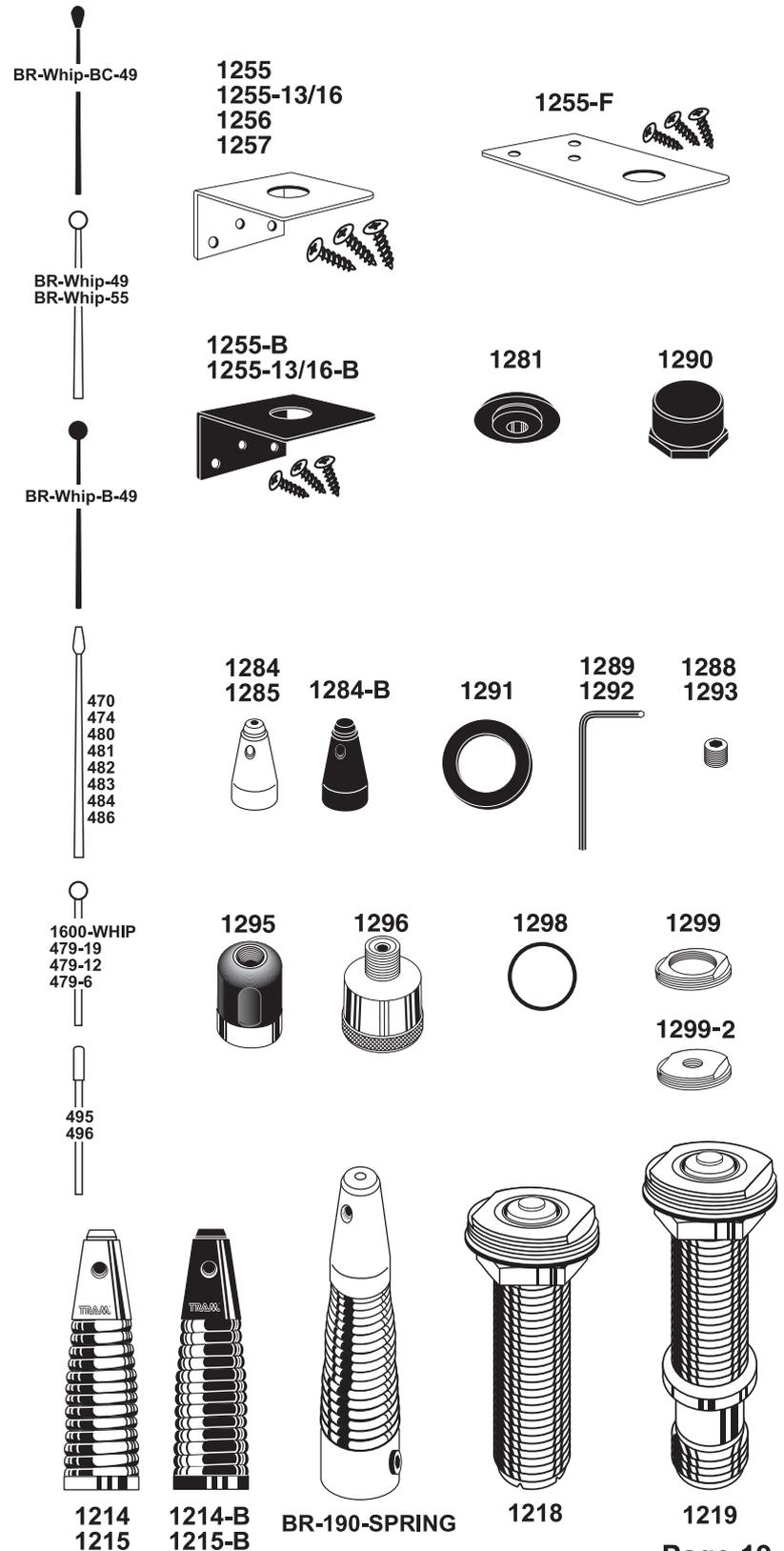
Stainless Steel Springs for Land Mobile Antennas

• Heavy duty

Model	Description
1214	Chrome plated for .100" whip (2.5 mm)
1214-B	Black kote finish for .100" whip (2.5 mm)
1215	Chrome plated for .118" whip (3 mm)
1215-B	Black kote finish for .118" whip (3 mm)
BR-190Spring	Chrome plated for BR-190 (page 5)

1" Thick Plate NMO's

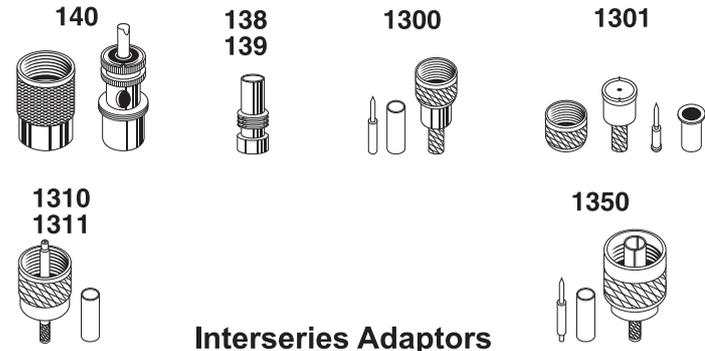
1218	UHF Female connector
1219	N Female connector



Model	Description
140	UHF PL-259 nickel plated insulator w/silver tip
140-GP	UHF PL-259 nickel plated insulator w/gold tip
140-S	UHF PL-259 silver plated insulator w/silver tip
139	UG-176 reducer for RG-8X/RG-59
139-S	UG-176 silver reducer for RG-8X/RG-59
138	UG-175 reducer for RG-58
138-S	UG-175 silver reducer for RG-58
1300	Mini-UHF male 3-piece crimp for RG-58/U
1301	Mini-UHF male 4-piece crimp for RG-58/U
1310	UHF-Male 2-piece crimp for RG-58/U
1311	UHF-Male 2-piece crimp for RG-8X/RG-59
1350	N Male 3-piece crimp for RG-58/U
1351	N Male crimp for RG-8X
5320	Mini-UHF Female crimp for RG-58/U
5321	Mini-UHF Female crimp for RG-8X/RG-59
5452	N Male 3-piece crimp for RG-213U/RG-8
5454	N Female crimp for RG-213U
5458	N Male clamp for RG-213U/RG-8
5462	N Male short clamp for RG-58/U
5464	N Female crimp for RG-58/U
5466	N Female clamp for RG-58/U
5468	N Female clamp for RG-213U/RG-8
5500	TNC Male 3-piece crimp for RG-58/U
5510	TNC Male quick crimp for RG-58/U
5600	BNC Male crimp for RG-58/U
5610	BNC Male quick crimp for RG-58/U
5700	SMA Male crimp for RG-58/U
5700-G	SMA Male gold crimp for RG-58/U
5800	FME Male crimp for RG-58/U
5864	FME Female crimp for RG-58/U

Intra-Series Adaptors

Model	Description
5162	Pushon-UHF Male to Female
5166	UHF double Female bulk head - 2"
5167	UHF double Female
5169	UHF right angle Male to Female
5170	UHF double Male
5171	UHF "T" Male to 2-Female
5173	UHF Female solder panel receptical
5367	Mini-UHF double Female
5467	N double Female
5470	N double Male
5471	N "T" Male to 2-Female
5567	TNC double Female
5667	BNC double Female
5671	BNC "T" Male to 2-Female
5672	BNC "T" 3-Female
5767	SMA double Female
5870	FME double Male



Interseries Adaptors

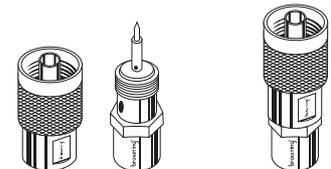
Model	Description
5174	UHF-Female-chassis mnt.
5175	UHF Female to N Female
5180	UHF Male to Mini-UHF Female
5181	UHF Male to TNC Female
5182	UHF Male to TNC Male
5183	UHF Male to BNC Female
5184	UHF Male to BNC Male
5185	UHF Male to N Female
5186	UHF Male to N Male
5190	UHF Male to FME Male
5378	Mini-UHF Male to UHF Female
5381	Mini-UHF Male to TNC Female
5383	Mini-UHF Male to BNC Female
5385	Mini-UHF Male to N Female
5387	Mini-UHF Male to SMA Female
5390	Mini-UHF Male to FME Male
5478	N Male to UHF Female
5480	N Male to Mini-UHF Female
5481	N Male to TNC Female
5483	N male to BNC Female
5484	FME Female to BNC Female
5487	N Male to SMA Female
5489	N Male to BNC Male
5490	N Male to FME Male
5578	TNC Male to UHF Female
5580	TNC Male to Mini-UHF Female
5583	TNC Male to BNC Female
5585	TNC Male to N Female
5587	TNC Male to SMA Female
5590	TNC Male to FME Male
5678	BNC Male to UHF Female
5680	BNC Male to Mini-UHF Female
5681	BNC Male to TNC Female
5685	BNC Male to N Female
5687	BNC Male to SMA Female
5690	BNC Male to FME Male
5760	SMA Female to UHF Female
5778	SMA Male to UHF Female
5780	SMA Male to Mini-UHF Female
5781	SMA Male to TNC Female
5783	SMA Male to BNC Female
5785	SMA Male to N Female
5790	SMA Male to FME Male
5879	FME Female to MUHF Female
5882	FME Female to TNC Female
5888	FME Female to SMA Female

browning[®]

Model N-140-S

2 Piece Silver N Male Connector
For 400 Type Cable and RG-213U

- Gold contact pin
- Will accept reducers for RG-8X and RG-58 applications





Coax Cable

RG-213/U Military Spec MIL-C-17G

Model Reel	Wood	Shield Imp.Velocity	Center Conductor	Polyethylene Insulation	Capacitance	Jacket	Attenuation		
							MHz	dB/ft.	dB/m
# 213U 213U-50-NN 213U-25-N 213U-12-N	500 ft. 50 ft. N to N Con. 25 ft. UHF to N Con. 12 ft. UHF to N Con.	Bare copper braid 95% 50 Ohms 66% VOP	Stranded bare copper 7/21 ga (0.0296") (7/0.752 mm)	Solid 0.285"(7.24 mm)	30.80 pF/ft. 101.00 pF/m	0.405" (10.3 mm) Non-Contaminating Black PVC	100	1.89	6.20
							200	1.71	8.90
							400	4.08	13.40
							900	7.62	25.00
RG-8X	Double Shield								
# 8XF-G	500 ft.	Bare copper braid 95% alum.foil 50 Ohms 78% VOP	Stranded bare copper 19/29 ga.(0.011") (19/0.287 mm)	Foam 0.155"(3.94 mm)	25.90 pF/ft. 85.00 pF/m	0.242"(6.15 mm) Gray PVC	100	3.69	12.10
							200	5.40	17.70
							400	7.99	26.20
							700	11.10	36.40
RG-8X	Gray or Black								
# 8X-B	500 ft.	Bare copper braid 95% 50 Ohms 78% VOP	Stranded bare copper 19/29 ga.(0.011") (19/0.287 mm)	Foam 0.155"(3.94 mm)	25.90 pF/ft. 85.00 pF/m	0.242"(6.15 mm) black or grey PVC	100	4.05	13.30
							200	5.79	19.00
							400	8.38	27.50
							700	11.43	37.50
# 8X-G									
# 58-B	500 ft.	Bare copper braid 95% 50 Ohms 78% VOP	Stranded bare copper 19/32 ga (0.008") (19/0.203 mm)	Foam 0.114"(2.90 mm)	25.90 pF/ft. 85.00 pF/m	0.195" (4.95 mm) black or grey PVC	100	4.12	13.50
							200	5.95	19.50
							400	8.38	27.48
							700	11.59	38.00
# 58-B									
# 58PT-B	500 ft.	Tinned copper braid 95% 50 Ohms 66% VOP	Stranded tinned copper 19/33 ga.(0.007") (19/0.18 mm)	Solid 0.116"(2.95 mm)	30.80 pF.ft. 101.00 pF/m	0.195"(4.95 mm) black PVC	100	4.91	16.10
							200	7.29	23.90
							400	11.49	37.70
							900	20.00	65.60
RG-58/U	Solid Center								
# 58UP-B	500 ft.	Bare copper braid 95% 50 Ohms 66% VOP	Solid bare copper 1/20 ga.(0.032") (1/0.813 mm)	Solid 0.116"(2.95 mm)	28.70 pF/ft. 94.00 pF/m	0.195"(4.95 mm) black PVC	100	4.51	14.80
							200	6.80	22.30
							400	10.00	32.80
							700	13.99	45.90
# 58UP-B									

RG-8X Cable Assemblies 2 UHF Male PL-259's with Molded Strain Relief
Black Jacket (Bulk) **Gray Jacket (Bulk)**

Model	Description	Model	Description
100-6-8X-B	6 ft. UHF to UHF conn.	100-8X-G	3 ft. UHF to UHF conn.
102-8X-B	12 ft. UHF to UHF conn.	100-6-8X-G	6 ft. UHF to UHF conn.
103-8X-B	18 ft. UHF to UHF conn.	102-8X-G	12 ft. UHF to UHF conn.
8X-50-B	50 ft. UHF to UHF conn.	103-8X-G	18 ft. UHF to UHF conn.
8X-100-B	100 ft. UHF to UHF conn.		

RG-59A/U Co-Phase Harness 2 UHF PL-259's to UHF PL-259
Black Jacket (Bulk) **Gray Jacket (Bulk)**

108-B	12 ft. UHF to 2 UHF conn.	108-G	12 ft. UHF to 2 UHF conn.
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browning®

BR-400

Braided cable, 0.405 inch diameter

- Low loss RG-8/RG-213/9913 type cable
- Solid copper coated aluminum center conductor
- High velocity gas-injected foam dielectric - 85%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

Construction Specifications

Part	Material	Inches	MM
Inner conductor	Copper coated aluminum	0.108	2.74
Dielectric	Foam polyethylene	0.285	7.24
Outer conductor	Aluminum tape	0.291	7.39
Overall braid	Tinned copper	0.320	8.13
Jacket	Black polyethylene	0.405	10.29

Electrical Specifications

- Velocity of propagation	85%	
- DC breakdown	2500 Volts	
- Peak power rating	16 kW	
- DC resistance		
inner conductor,ohms	1.39/1,000'	4.56/km
- DC resistance		
outer conductor,ohms	1.65/1,000'	5.41/km
- Jacket spark-volts RMS	8,000	
- Impedance	50 Ohms	
- Capacitance	23.9 pF/ft.	78.4 pF/m
- Inductance	0.060 uH/ft.	0.20 uH/m
- Shielding effectiveness	>90 dB	

Model# BR-400

Roll of 500 ft.

Attenuation and Average Power Rating

Frequency MHz	Attenuation dB/100 ft.	Attenuation dB/100 m	Avg.Power KW
30	0.7	2.2	3.3
50	0.9	2.9	2.6
150	1.5	5.0	1.5
220	1.9	6.1	1.2
450	2.7	8.9	0.8
900	3.9	12.8	0.56
1500	5.1	16.8	0.43
1800	5.7	18.6	0.39
2000	6.0	19.6	0.37
2500	6.7	22.0	0.33

BR-400 Cable Assemblies

Connectors are Nickel Plated Brass

Model	Description
400-3	3 ft. UHF Male to UHF Male
400-3N-UHF	3 ft. N Male to UHF Male
400-3N-N	3 ft. w/ N Male to N Male
400-6	6 ft. UHF Male to UHF Male
400-6N-UHF	6 ft. N Male to UHF Male
400-6N-N	6 ft. N Male to N Male
400-25	25 ft. UHF Male to UHF Male
400-25N-UHF	25 ft. N Male to UHF Male
400-25N-N	25 ft. N Male to N Male
400-50	50 ft. UHF Male to UHF Male
400-100	100 ft. UHF Male to UHF Male

BR-400 Browning Connectors

Silver Plated Brass, Gold Contact Pin

Model	Description-Conn.Body/Pin
N-140-S	N Male solder
N-400	N Male crimp/solder
N-CP-400	Contact pin for N-400
NF-400	N Female crimp/Solder
NF-CP-400	Contact pin for NF-400
UHF-400	UHF Male crimp/Solder

Nickel Plated Brass, Gold Contact Pin

N-400-NK	N Male crimp/solder
----------	---------------------

browning®

BR-400-BC

Braided Cable, 0.405 Inch Diameter

- Low loss RG-8/RG-213/9913 type cable
- **Solid bare copper center conductor**
- High velocity gas-injected foam dielectric - 85%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

Electrical Specifications

- Maximum frequency	16.2 GHz	
- Velocity of propagation	85%	
- DC breakdown	2500 Volts	
- Peak power rating	16 kW	
- DC resistance		
inner conductor,ohms	1.39/1,000'	4.56/km
- DC Resistance		
outer conductor,ohms	1.65/1,000'	5.41/km
- Jacket spark-volts RMS	8,000	
- Impedance	50 Ohms	
- Capacitance	25.00 pF/ft.	82.00 pF/m
- Inductance	0.060 uH/ft.	0.20 uH/m
- Shielding effectiveness	>90 dB	
- Phase stability	< 10 ppm/C	

BR-400-BC

Roll of 500 ft.

Construction Specifications

Part	Material	Inches	MM
Inner conductor	Solid bare copper	0.108	2.74
Dielectric	Foam polyethylene	0.285	7.24
Outer conductor	Aluminum tape	0.291	7.39
Overall braid	Tinned copper	0.320	8.13
Jacket	Black polyethylene	0.405	10.29

Attenuation and Average Power Rating

Frequency MHz	Attenuation dB/100 ft.	dB/100 m	Avg.Power KW
30	0.7	2.2	3.3
50	0.9	2.9	2.6
150	1.5	5.0	1.5
220	1.9	6.1	1.2
450	2.7	8.9	0.8
900	3.9	12.8	0.56
1500	5.1	16.8	0.43
1800	5.7	18.6	0.39
2000	6.0	19.6	0.37
2500	6.7	22.0	0.33

BR-500

Braided Cable, 0.500 Inch Diameter

- Low loss 1/2 inch cable
- Solid copper coated aluminum center conductor
- High velocity gas-injected foam dielectric - 86%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

Electrical Specifications

- Velocity of propagation	86%	
- DC breakdown	3000 Volts	
- Peak power rating	22 kW	
- DC resistance		
inner conductor,ohms	0.82/1,000'	2.7/km
- DC Resistance		
outer conductor,ohms	1.27/1,000'	4.2/km
- Jacket spark-volts RMS	8,000	
- Impedance	50 Ohms	
- Capacitance	23.6 pF/ft.	77.5 pF/m
- Inductance	0.059 uH/ft.	0.19 uH/m

BR-500

Roll of 500 ft.

Construction Specifications

Part	Material	Inches	MM
Inner conductor	Copper coated alum.	0.142	3.61
Dielectric	Foam polyethylene	0.370	9.40
Outer conductor	Aluminum tape	0.376	9.55
Overall braid	Tinned copper	0.405	10.29
Jacket	Black polyethylene	0.500	12.70

Attenuation and Average Power Rating

Frequency MHz	Attenuation dB/100 ft.	dB/100 m	Avg.Power KW
30	0.5	1.8	4.4
50	0.7	2.3	3.4
150	1.2	4.0	1.9
220	1.5	4.9	1.6
450	2.2	7.1	1.0
900	3.1	10.3	0.75
1500	4.1	13.6	0.56
1800	4.6	15.0	0.51
2000	4.8	15.9	0.48
2500	5.5	18.0	0.42

BR-500 Browning Connectors - Silver Plated, Gold Contact Pin

Model	Description-Conn.Body/Pin
N-500	N Male crimp/solder
N-CP-500	Contact pin for N-500
NF-500	N Female pin for NF-500
NF-CP-500	Contact Pin for NF-500
UHF-500	UHF Male crimp/solder

CATV

Digital broadband cable, 0.30 inch diameter

• Low loss RG-6 quad shield type cable

- Moisture resistant
- Solid copper covered steel center conductor
- High velocity gas-injected foam dielectric - 82%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape plus 60% coverage aluminum wire plus double side aluminum tape plus 40% coverage aluminum wire plus floodant

Electrical Specifications

- Velocity of propagation	82%
- DC breakdown	1000 volts
- DC resistance	
inner conductor, ohms	30.4/1,000'
- DC resistance	
outer conductor, ohms	5.3/1,000'
- Jacket spark - volts RMS	3,000
- Impedance	75 ohms
- Capacitance	16.16 pF/ft.
- Inductance	0.091 uH/ft.
- Shielding effectiveness	>90 db

CATV

Roll of 1000 ft.

browning®

BR-195

Braided cable, 0.195 inch diameter

• Low loss RG-58 type cable

- Solid bare copper center conductor
- High velocity gas-injected foam dielectric - 76%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

BR-195

Roll of 500 ft.

Attenuation and Average Power Rating

Frequency MHz	Attenuation		Avg. Power kW
	dB/100 ft.	dB/100 m	
30	2.0	6.5	0.89
50	2.5	8.4	0.68
150	4.4	14.6	0.39
220	5.4	17.7	0.32
450	7.8	25.5	0.22
900	11.1	36.5	0.16
1500	14.5	47.7	0.12
1800	16.0	52.5	0.11
2000	16.9	55.4	0.10
2500	19.0	62.4	0.09
2800	29.9	98.1	0.06

Electrical Specifications

- Maximum frequency	16.2 GHz
- Velocity of propagation	76%
- DC breakdown	1000 volts
- Peak power rating	2.5 kW
- DC resistance	
inner conductor, ohms	7.6/1,000'
- DC resistance	
outer conductor, ohms	4.90/1,000'
- Jacket spark - volts RMS	3,000
- Impedance	50 ohms
- Capacitance	25.40 pF/ft.
- Inductance	0.064 uH/ft.
- Shielding effectiveness	>90 db
- Phase stability	< 10 ppm/C

Use Standard RG-58 Crimp Connectors

BR-200

Braided cable, 0.195 inch diameter

• Low loss RG-58 type cable

- Solid bare copper center conductor
- High velocity gas-injected foam dielectric - 83%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

BR-200

Roll of 500 ft.

Attenuation and Average Power Rating

Frequency MHz	Attenuation		Avg. Power kW
	dB/100 ft.	dB/100 m	
30	1.8	5.8	1.20
50	2.3	7.5	0.79
150	4.0	13.1	0.45
220	4.8	15.9	0.37
450	7.0	22.8	0.26
900	9.9	32.6	0.18
1500	12.9	42.4	0.14
1800	14.2	46.6	0.13
2000	15.0	49.3	0.12
2500	16.9	55.4	0.10

Electrical Specifications

- Maximum frequency	16.2 GHz
- Velocity of propagation	83%
- DC breakdown	1000 volts
- Peak power rating	2.5 kW
- DC resistance	
inner conductor, ohms	5.36/1,000'
- DC resistance	
outer conductor, ohms	4.90/1,000'
- Jacket spark - volts RMS	3,000
- Impedance	50 ohms
- Capacitance	25.55 pF/ft.
- Inductance	0.061 uH/ft.
- Shielding effectiveness	>90 db
- Phase stability	< 10 ppm/C

BR-200-1

Roll of 1000 ft.

Use BR-200 Crimp Connectors Only

BR-240

Braided cable, 0.240 inch diameter

• Low loss RG-8X type cable

- Solid bare copper center conductor
- High velocity gas-injected foam dielectric - 84%
- 100% shield coverage - 95% tinned copper braid plus bonded aluminum tape

BR-240

Roll of 500 ft.

Attenuation and Average Power Rating

Frequency MHz	Attenuation		Avg. Power kW
	dB/100 ft.	dB/100 m	
30	1.3	4.4	1.49
50	1.7	5.7	1.15
150	3.0	9.9	0.66
220	3.7	12.0	0.54
450	5.3	17.3	0.38
900	7.6	24.8	0.26
1500	9.9	32.4	0.20
1800	10.9	35.6	0.18
2000	11.5	37.7	0.17
2500	12.9	42.4	0.15

Electrical Specifications

- Maximum frequency	16.2 GHz
- Velocity of propagation	84%
- DC breakdown	1,500 volts
- Peak power rating	5.6 kW
- DC resistance	
inner conductor, ohms	3.2/1,000'
- DC resistance	
outer conductor, ohms	3.89/1,000'
- Jacket spark - volts RMS	5,000
- Impedance	50 ohms
- Capacitance	25.12 pF/ft.
- Inductance	0.061 uH/ft.
- Shielding effectiveness	>90 db
- Phase stability	< 10 ppm/C

Use BR-240 Crimp Connectors Only

Browning Connectors - Silver Plated Brass, Gold Contact Pin

BR-200

Model	Description-Conn.Body/Pin
N-200	N-Male Crimp
UHF-200	UHF-Male crimp/solder
MUHF-200	Mini-UHF Male crimp
MUHF-200	Mini-UHF Female crimp
BNC-200	BNC Male crimp
BNC-200	BNC Female crimp
BNC-RP-200	BNC Male crimp (reverse polarity)
BNC-RP-200	BNC Female crimp (reverse polarity)
TNC-200	TNC Male crimp
TNC-200	TNC Female crimp
TNC-RP-200	TNC Male crimp (reverse polarity)
TNC-RP-200	TNC Female crimp (reverse polarity)
SMA-200	SMA Male crimp

BR-240

Model	Description-Conn.Body/Pin
N-240	N Male Crimp
UHF-240	UHF Male crimp
MUHF-240	Mini-UHF Male crimp
BNC-240	BNC Male crimp
TNC-240	TNC Male crimp



RG-213U Low Loss Double Shield MIL-C-17G

- Bare copper braid 97% + foil shield
- Non-contaminating 105 degree centigrade jacket
- Stranded bare copper center conductor • Solid insulation

Model# **BR-213-DS**

Roll of 500 ft.

RG-58A/U Low Loss Double Shield

- Tinned copper braid 95% + foil shield
- Stranded tinned copper center conductor, solid insulation
- 2 UHF male PL-259's with molded strain relief

Model# **BR-58-DS**

Roll of 500 ft.

BR-213-DS Cable Assemblies w/ Soldered UHF Male Premium Connectors

Poly Bag w/Header Card For Display - UPC Coded

Model	Description
BR-213-6	6 Ft. UHF to UHF Connector
BR-213-50	50 Ft. UHF to UHF Connector
BR-213-100	100 Ft. UHF to UHF Connector

BR-58-DS Cable Assemblies w/ Soldered UHF Male Connectors and Molded Strain Relief

Poly Bag w/Header Card For Display - UPC Coded

Model	Description
BR-6	6 Ft. UHF to UHF Connector
BR-18	18 Ft. UHF to UHF Connector

RG-8X Low Loss Double Shield

- Bare copper braid 95% + foil shield • Black jacket
- Stranded copper center conductor • Foam insulation

Model# **BR-8X-DS**

Roll of 500 ft.

BR-8X-DS Cable Assemblies w/ Soldered UHF Male Connectors and Molded Strain Relief

Poly Bag w/Header Card For Display - UPC Coded

Model	Description
BR-8X-3	3 Ft. UHF to UHF Connector
BR-8X-6	6 Ft. UHF to UHF Connector
BR-8X-18	18 Ft. UHF to UHF Connector
BR-8X-25	25 Ft. UHF to UHF Connector
BR-8X-50	50 Ft. UHF to UHF Connector (BR-8X-50 comes bulk)

BIGCAT

Heavy Duty CB Stud

- Stainless steel SO-239 and all thread/pin
- Poly bag w/header card for display
- UPC coded • Fits 1/2" hole

Model

208

TRAM[®]

208



278



BIGCAT CB

Mirror Mount w/Stud

- Stainless steel mount and bolts (#277)
- Heavy duty CB stud (#208)
- Poly bag w/header card for display • UPC coded

Model

278

277



217



Stainless Steel Mirror Mount 1/2" Hole

- Stainless steel mount and bolts
- Bulk packaged

Model

277

244



194



481 CB replacement whip - 55"

482 CB replacement whip - 57"

1286 TBC - Hex Screw

1287 TBC - Hex Wrench

217 Antenna Quick Disconnect

244 Side Body Mount

194 All thread 3/4" 3/8-24

Trucker CB Antenna

- 26-30 MHz • 3700 watts power handling • Heavy duty loading coil
- Thermoplastic round coil holder for greater noise reduction
- Stainless steel shaft w/ 3/8"-24 thread • Stainless steel .118"(3 mm) tapered whip • Poly bag w/ header card, UPC coded

Model	Shaft Length	Whip Length
3700	6"	46 15/16"
3710	10"	49"
3716	16"	46 1/8"
3725	25"	39 1/4"



Model 3500



Heavy Duty CB Magnet Antenna Kit

Model 300



- 3500 watts power handling
- Heavy duty 5" magnet w/ rubber boot
- 18 Ft. heavy duty RG-8X premium coax cable w/ PL-259
- 56 1/2" stainless steel .118"(3 mm) tapered whip
- Thermoplastic round coil holder for extremely low noise reduction
- Weather channel capability
- Frequency range : 26-30 MHz
- Poly bag w/ header card, UPC coded

Model 3500

One Piece Magnet and Coil Housing CB Magnet Kit

- 26-30 MHz • 3 1/2" heavy duty magnet w/ rubber boot • 300 watts
- Weather channel capability
- 17 Ft. premium 95% copper shield RG-58A/U w/ PL-259
- 14 gauge tinned copper coil wire
- 35" stainless steel .100"(2.5mm) whip
- Poly bag w/ header card, UPC coded

Model 300

browning®

CB Antennas

Poly Bag w/Header Card
For Display - UPC Coded

Broad Band 25-30 MHz 10 Meter Amature/CB Antennas

- Stainless steel shafts - 3/8" x 24 thread
- Stainless steel 17-7 ph tempered .118" (3mm) tapered whips
- Standard 3/8" x 24 thread mounting

10,000 Watts Round Coil Antennas

- Double chrome plated copper coils

Model	Shaft	Whip	Total Height	Coil Diameter
BR-27	-	51 1/4"	59"	2"
BR-28	6"	49 1/4"	63"	2"
BR-29	16"	44 1/2"	68"	2"
BR-37	-	51 1/4"	61"	2"
BR-38	6"	49 1/4"	65"	2"
BR-39	16"	44 1/2"	70"	2"

15,000 Watt Flat Coil Antennas

- Aluminum flat coils

BR-77	-	51 1/4"	59"	2"
BR-78	6"	47 1/4"	63"	2"
BR-7810	10"	49"	66"	2"
BR-79	16"	41 1/2"	68"	2"
BR-87	-	51 1/4"	61"	2"
BR-88	6"	49 1/4"	55"	2"
BR-89	16"	44 1/2"	70"	2"

20,000 Watts Flat Coil Antennas

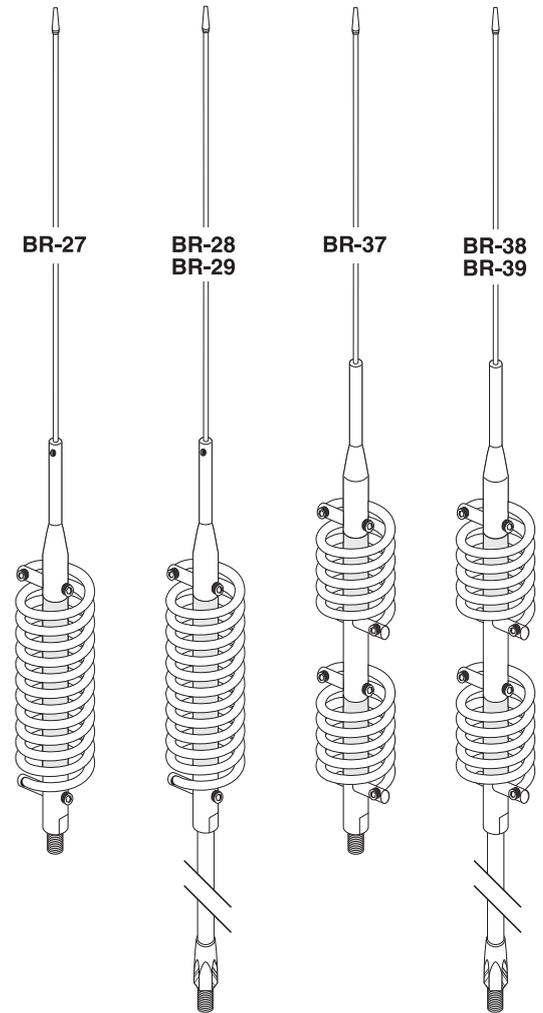
- Aluminum flat coils

BR-51	6"	43 1/4"	59 1/2"	2 3/4"
BR-54	6"	49 1/2"	65 3/4"	4"

25,000 Watts Flat Coil Antennas

- Aluminum flat coils

BR-52	8"	43 1/4"	62"	2 3/4"
BR-55	8"	49 1/2"	68"	4"



Cable assemblies w/PL-259's

- 2 UHF/PL-259's installed w/molded strain relief (on each end)
- Poly bag w/header card • UPC coded for display

Low Loss RG-58A/U Tinned Double Shield 95% Braid + Aluminum Foil

BR-6	6 ft. UHF/PL-259 to UHF/PL-259
BR-18	18 ft. UHF/PL-259 to UHF/PL-259

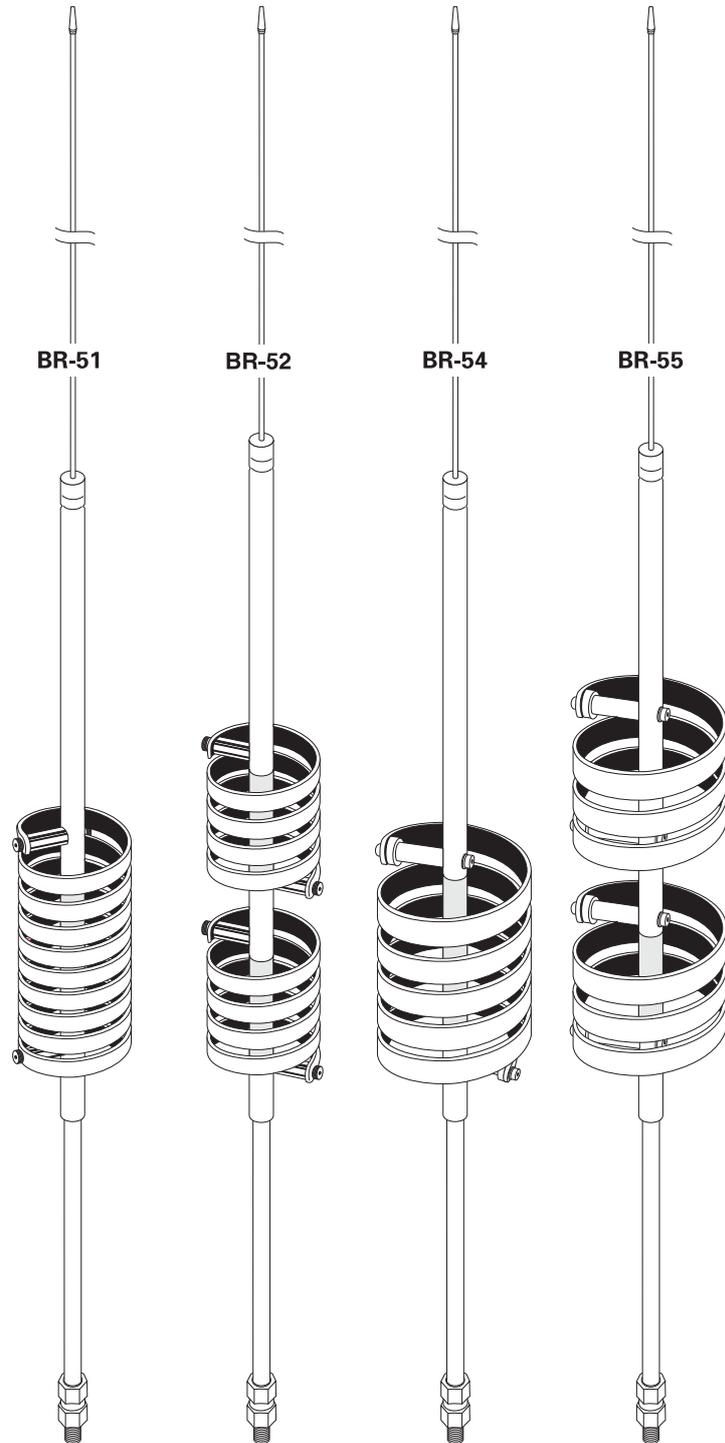
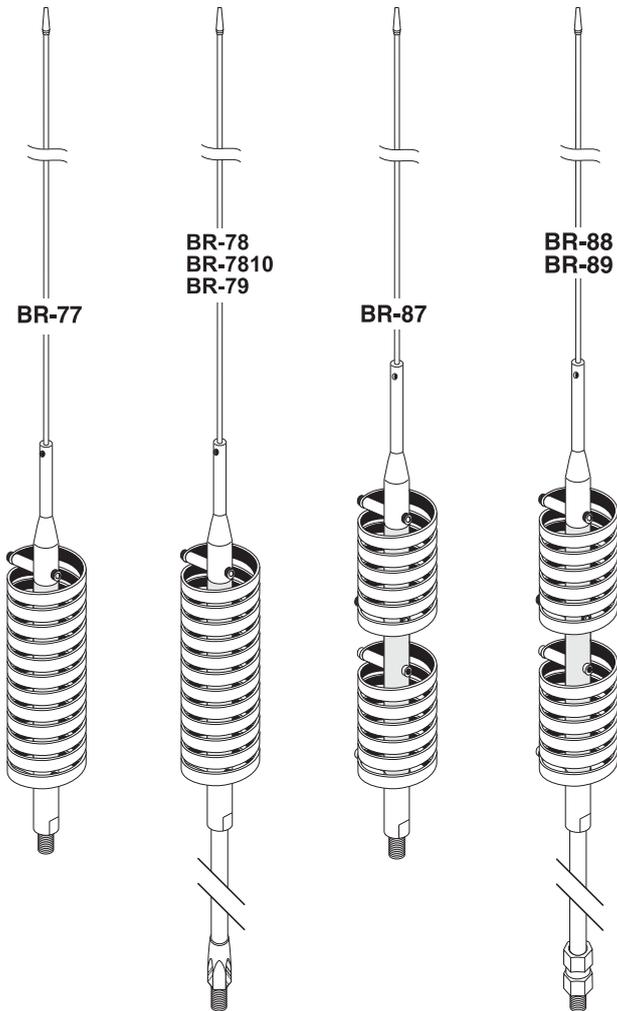
Low Loss RG-8X Double Shield Bare Copper 95% Braid + Aluminum Foil

BR-8X-3	3 ft. UHF/PL-259 to UHF/PL-259
BR-8X-6	6 ft. UHF/PL-259 to UHF/PL-259
BR-8X-18	18 ft. UHF/PL-259 to UHF/PL-259
BR-8X-25	25 ft. UHF/PL-259 to UHF/PL-259
BR-8X-50	50 ft. UHF/PL-259 to UHF/PL-259 (BR-8X-50 comes bulk)

Stainless Steel Mirror Mount w/Cable

- 3/8" x 24 Thread stud for standard CB antenna
- 18 ft. RG-58 A/U stranded coax w/PL-259
- Poly bag w/header card for display - UPC coded





Land Mobile Class Noise Filter 15 AMP • 250 Watts

Heavy Duty Suppression of Alternator and Ignition Noise

High Inductance Iron Core Coil
10,000 MFD Bypass Electrolytic Capacitor
Poly bag w/ header card for display UPC coded



**Model
BR-FILTER**

TRAM[®] Aluminum CB Antennas

- High performance aluminum • Ultra light weight • Stainless steel tapered whip .118" (3mm)
- Stainless steel 3/8" x 24 all thread mount • Poly bag w/ header card for display • UPC coded

FlatCats

- 5/16" wide flat coil • 23/32" diameter shaft • 27,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TFC-3	9 oz	3"	53"
TFC-6	11 oz	6"	53"
TFC-9	13 oz	9"	50"
TFC-12	15 oz	12"	49"
TFC-15	17 oz	15"	48"

Big FlatCats

- 1/2" wide flat coil • 28/32" diameter shaft • 37,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TBFC-9	18 oz	9"	51 1/4"

Giant FlatCat

- 3/4" wide flat coil • 28/32" diameter shaft • 39,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TGFC-9	22 oz	9"	59"

TramCats

- Round coil • 23/32" diameter shaft • 15,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TC-6	9 1/2 oz	6"	35 1/2"
TC-9	12 oz	9"	35 1/2"

TramCat Twins

- Round coil • 23/32" diameter shaft • 15,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TCT-6	10 1/2 oz	6"	42 1/4"
TCT-9	13 oz	9"	42 1/4"

Big Cats

- Round coil • 23/32" diameter shaft • 20,000 watts

Model	Antenna Weight	Shaft Length	Whip Length
TBC-3	10 1/2 oz	3"	55 1/8"
TBC-6	11 oz	6"	53"
TBC-9	11 1/2 oz	9"	51 1/4"
TBC-12	12 oz	12"	49 1/8"



RG-8X Cable Assemblies 2 UHF Male PL-259's with Molded Strain Relief

Black Jacket (Bulk)

Model	Description
100-6-8X-B	6 ft. UHF to UHF conn.
102-8X-B	12 ft. UHF to UHF conn.
103-8X-B	18 ft. UHF to UHF conn.
8X-50-B	50 ft. UHF to UHF conn.
8X-100-B	100 ft. UHF to UHF conn.

Gray Jacket (Bulk)

Model	Description
100-8X-G	3 ft. UHF to UHF conn.
100-6-8X-G	6 ft. UHF to UHF conn.
102-8X-G	12 ft. UHF to UHF conn.
103-8X-G	18 ft. UHF to UHF conn.

RG-59A/U Co-Phase Harness 2 UHF PL-259's to UHF PL-259

Black Jacket (Bulk)

Model	Description
108-B	12 ft. UHF to 2 UHF conn.

Gray Jacket (Bulk)

108-G	12 ft. UHF to 2 UHF conn.
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TFC-3
TFC-9
TFC-12
TFC-15



TBFC-9



TGFC-9



TC-6
TC-9



TCT-6
TCT-9



TBC-3
TBC-6
TBC-9
TBC-12





Penetrator CB Antennas

- 3/8" Stainless Steel Shafts
- Harder Than Steel Insulators
- Chrome Plated Coils
- Stainless Steel 17-7 ph Tempered .118" (3mm) Tapered Whip
- Standard 3/8" x 24 Thread Mounting

Sparrows

- 5,000 Watts, 26-30 MHz
- Poly Bag w/Header Card • UPC Coded

Model	Shaft	Whip	Height
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SP-59	-	51"	59"
SP-63	6"	49 1/4"	63"

Super Sparrows

- 6,000 Watts • 26-30 MHz
- Square Coils For 20% More Gain
- Poly Bag w/Header Card • UPC Coded

SSP-59	-	51"	59"
SSP-63	6"	49 1/4"	63"
SSP-67	16"	44 1/2"	67"

(SSP-67 bulk packaged)

CB Magnet Kits

- 17 Ft. Premium 95% Copper Shield RG-58A/U w/PL-259
- SWR Below 1.7:1 Across CB Band 26.965-27.405 MHz
- 3 1/2" Magnet • Spring • Stainless Steel Shaft & Whip
- Poly Bag w/Header Card • UPC Coded

Model	Shaft	Whip	Height
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703	-	-	24 1/2"
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- High Performance Base Load
- 17 Ft. Premium 95% Copper Shield RG-58A/U w/ PL-259
- SWR Below 1.5:1 Across CB band 26.965-27.405 MHz
- 3 1/2" Magnet • Stainless Steel Whip

705	35"	3 ft.4"
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Rocket - Oil Filled Coils

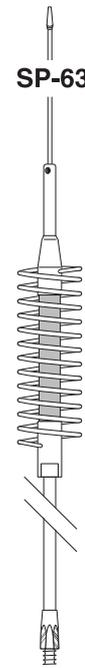
- 3/8" Stainless Steel Shaft
- Heavy Duty, High Grade Copper Loading Coil Offers Greater Field Strength
- 6 dB
- Stainless Steel 17-7 pH tempered .118" (3 mm) Tapered Whip
- Standard 3/8" x 24 Thread Mounting

Model	Shaft	Whip	Height
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RK-1	6"	44 1/2"	55"
RK-2	15"	41 1/2"	61"



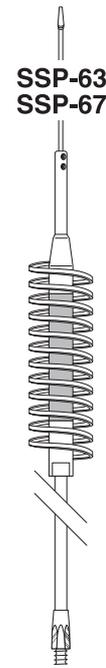
SP-59



SP-63



SSP-59



SSP-63
SSP-67



705



RK-1
RK-2



703



Bottom Load CB Antennas

NIGHTHAWKS

- 26-29 MHz
- Heavy duty 4 1/2" loading coil
- 400 watts
- 43" stainless steel 17-7 ph tempered .100" (2.5 mm) tapered whip
- Standard 3/8" x 24 thread mounting
- Magnet mount kit comes with Black ABS 5" magnet with 17 ft. RG-58A/U coax w/PL-259 installed
- Poly bag w/header card for display - UPC coded

Model Description

NH-4-HC 4' coil and whip
NH-4-M5-HC 5" magnet mount kit w/NH-4

SKIPPER CB Antenna

- Super talk wide bandwidth
- 26-30 MHz
- Heavy duty 16" loading coil
- 3000 watts
- 35" stainless steel 17-7 pH tempered .100" (2.5 mm) tapered whip
- Standard 3/8" x 24 thread mounting
- Bulk

Model Description

SK-4 4' coil and whip

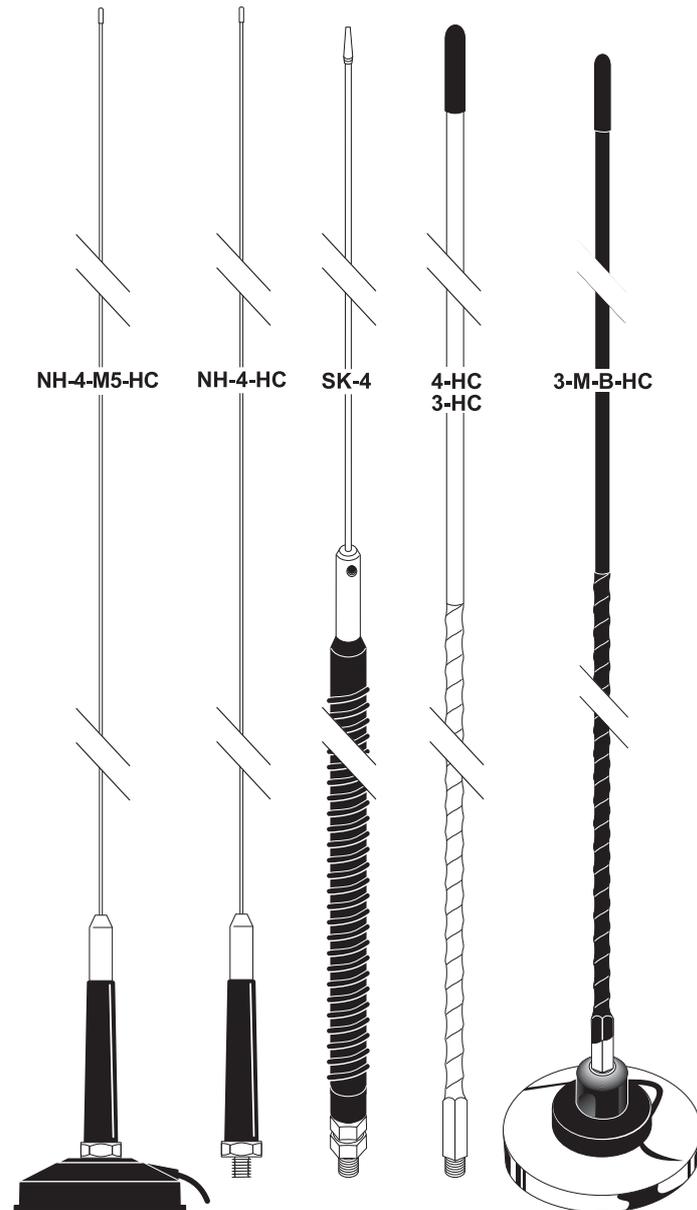
Fiberglass CB Antennas

- Heavy duty ,high performance
- 26-29 MHz AM/FM/SSB
- 1500 watts - full wave
- Black or white color
- Standard 3/8" x 24 thread mounting
- Magnet mount kit comes with Chrome Plated Steel 5" magnet with 17 ft. RG-58A/U coax w/PL-259 installed
- Poly bag w/header card for display - UPC coded

Model Description

4-B-HC 4 ft. black whip
4-W-HC 4 ft. white whip

3-B-HC 3 ft. black whip
3-W-HC 3 ft. white whip
3-M-B-HC 5" magnet mount kit w/3 ft. black whip



browning®

Satellite Radio Antennas

Poly Bag w/Header Card For Display - UPC Coded

Magnet Mounts w/ RG-178 Cable

• Heavy duty magnet mounting • Micro coaxial cable - RG-178 • Right angle SMB female connector

Model	Radio Type	Size	Cable Length
BR-M-X	XM Hi-Performance/Sirius Combo	1 5/16" X 1 1/2"	23 Ft.
BR-M-X-17	XM Hi-Performance/Sirius Combo	1 5/16" X 1 1/2"	17 Ft.
BR-M-S	Sirius Hi-Performance	1 15/16" X 1 15/16"	23 Ft.
BR-M-S-17	Sirius Hi-Performance	1 1/2" X 1 5/8"	17 Ft.

Mirror Mounts w/ RG-58 Cable

• Stainless steel 3-way mount • RG-58/U coaxial cable • Right angle SMB female connector
• Built-in large ground plane

BR-TRUCKER	XM Hi-Performance/Sirius Combo	10" Tall	17 Ft.
BR-SR-30	Sirius Hi-Performance	30" Tall	17 Ft.

TRAM®

Satellite Radio Antennas

Poly Bag w/Header Card For Display - UPC Coded

Magnet Mounts w/ RG-174 Cable

• Heavy duty magnet mounting • Heavy duty RG-174 coaxial cable • Right angle SMB female connector

Model	Radio Type	Size	Cable Length
7721	XM Hi-Performance/Sirius Combo	1 5/16" X 1 1/2"	21 Ft.
7726	Sirius Hi-Performance	1 1/2" X 1 5/8"	21 Ft.

Mirror Mounts w/ RG-174 Cable

• Stainless steel 3-way mount • RG-174 coaxial cable • Right angle SMB female connector

7743	XM Hi-Performance/Sirius Combo	10" Tall	17 Ft.
7748	Sirius Hi-Performance	10" Tall	17 Ft.

Mirror Mounts w/ RG-58 Cable

• Stainless steel 3-way mount • RG-58/U coaxial cable • Right angle SMB female connector

7754	XM Hi-Performance/Sirius Combo	11" Tall	21 Ft.
7759	Sirius Hi-Performance	11" Tall	21 Ft.
2300	Replacement cable for #7754, # 7759 and BR-TRUCKER		

Low - Profile Mirror Mounts - Land Mobile Class w/ RG-58 Cable

• Stainless steel 3-way mount • Fully shielded NMO mount w/RG-58/U coaxial cable
• Right angle SMB female connector

7732	XM Hi-Performance/Sirius Combo	2" Tall	17 Ft.
7737	Sirius Hi-Performance	2" Tall	17 Ft.

Marine Satellite Radio Antenna

1657-HC	<ul style="list-style-type: none"> • Compatible for use w/ XM & SIRIUS services • High performance on XM frequencies • Stainless steel hardware 	<ul style="list-style-type: none"> • Nylon ratchet mount for easy lay-down • 23 ft. RG-58 cable
1659-HC	<ul style="list-style-type: none"> • Specifically for use w/ SIRIUS service • High performance on SIRIUS frequencies • Stainless steel hardware 	<ul style="list-style-type: none"> • Nylon ratchet mount for easy lay-down • 23 ft. RG-58 cable



BR-M-S
BR-M-S-17



BR-M-X
BR-M-X-17

BR-TRUCKER
BR-SR-30



2300



7726



7721



7743
7748



7754
7759



7732
7737



1657-HC
1659-HC

Catalog

Combination GPS-VHF Antenna/ Mount

145-172 MHz 3 dB Gain Pre Tuned

- GPS antenna 3/4" hole mounting with NMO mount
- VHF NMO wide band - no tuning coil with 32" whip
- 17' RG-58/U w/ loose Mini-UHF Male or UHF Male
- 17' RG-174 w/ SMA Male installed



browning[®]

(GPS/NMO MOUNT HOUSING)

Model	Description
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BR-2111-MUHF	GPS/VHF Kit
BR-2111-CUHF	GPS/VHF Kit
BR-2100-MUHF	GPS/NMO Mount
BR-2100-CUHF	GPS/NMO Mount

(GPS/NMO mount can be used with any NMO antenna, frequency 1572.42 MHz)

Wide Band, No Tuning Omni Bases

- Pre Tuned • No-Ground Plane • Heavy Duty Fiberglass • N Female Connector • 150 Watts
- Mounting Bracket & Hardware • Poly Bag w/Header Card • UPC Coded

146-167 MHz 2 dBd Gain

21 MHz Band Width

- 43" (1.1m) Tall

Model BR-6051



BR-6051 & BR-6157

410-490 MHz 4.5 dBd Gain

80 MHz Band Width

- 34" (85cm) Tall • 5/8 Over 5/8 Wave

Model BR-6157

Freq. MHz	SWR
146	<1.76:1
150	<1.26:1
155	<1.23:1
160	<1.39:1
165	<1.88:1

Freq. MHz	SWR
413	<1.89:1
430	<1.33:1
450	<1.03:1
470	<1.37:1
490	<1.69:1