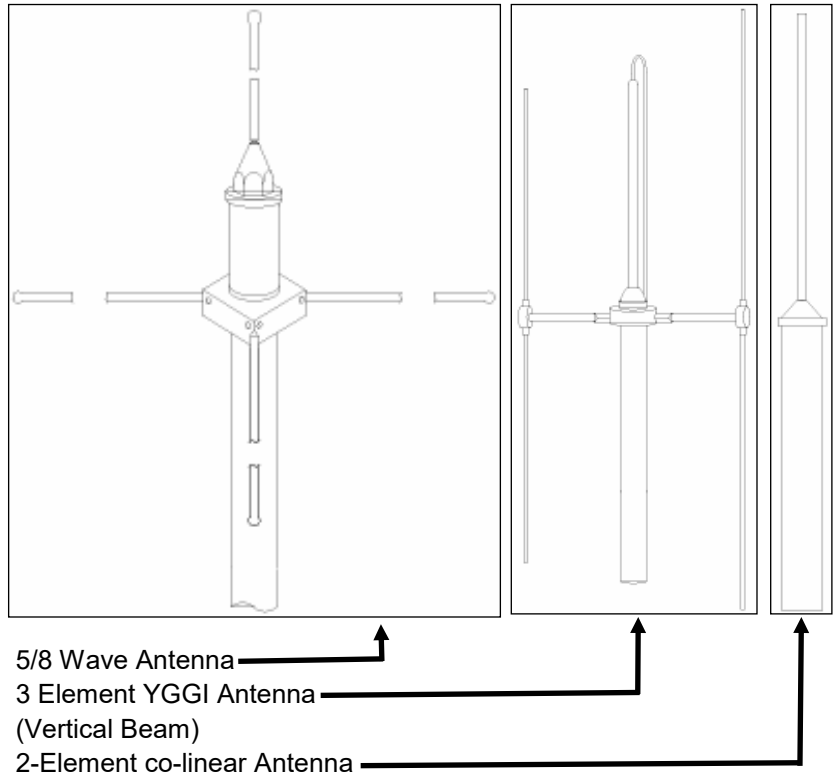


Receiving and Transmitting Antennas

Features:

- High quality antennas, machined in Aircraft Aluminum, Stainless Steel or Brass, with stainless steel screws
- All Antenna mount on the threaded end of standard rigid conduit
- Equipped with a female UHF connector
- Constructed so that a one-piece feed line can be used directly from the antenna to the transmitter or receiver
- Custom cut to the proper length for your frequency
- Wind speed analysis for specified antennas, rates them to survive gusts of 175 mph






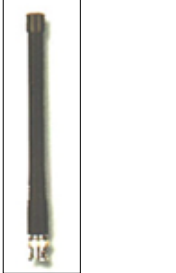

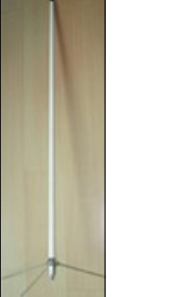
Installations:

- All installations shall comply with Kingfisher Antenna Installation manual part #75092

Receiving and Transmitting Antennas

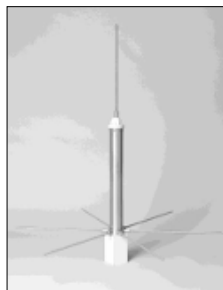
Transmitter Antennas:	
<u>50001-xx.xx</u>	
Shunt-Fed, Omni-Directional, Low Band, 1" Mount, Alum., 72.02-72.98 MHz. This is a two-element co-axial antenna, giving approximately 0 dBd gain; 1" Support Pipe Required	
<u>50002-xx.xx</u>	
Shunt Fed, Omni-Directional, Low Band, 1" Mount, Alum., 75.02-75.98 MHz. This is a two-element co-axial antenna, giving approximately 0 dBd gain. 1" Support Pipe Required	
<u>50004-xxx.xxxx</u>	
Serial-Fed, Omni-Directional, High Band, 1" Mount, Alum., 138-174 MHz. This is a two-element co-linear antenna, giving approximately 0 dBd gain. 1" Support Pipe Required	
<u>50026-xx.xx</u>	
Serial-Fed, Omni-Directional, Low Band, 1" Mount, Alum., 72.02-72.98 MHz. This is a two-element co-axial antenna, giving approximately 0 dBd gain. 1" Support Pipe Required	
<u>50027-xx.xx</u>	
Serial-Fed, Omni-Directional, Low Band, 1" Mount, Alum., 75.40-75.80 MHz. This is a two-element co-linear antenna, giving approximately 3 DB gain. 1" Support Pipe Required	
<u>50037-xx.xx</u>	
Serial-Fed, Omni-Directional, High Band, 1" Mount, Alum., 138-174 MHz. This antenna includes a ground plane section and is a 5/8 Wave Whip Antenna, giving approximately 3 DB gain. Rated for wind gusts of up to 175 mph. 1" Support Pipe Required	

Receiving and Transmitting Antennas

<p>Transmitter Antennas:</p>	
<p><u>50038-xx.xxxx</u></p> <p>Serial-Fed, Omni-Directional, Low Band, 1" Mount, Alum., 72.06-75.76 MHz.</p> <p>This antenna includes a ground plane section and is a 1/4 Wave Whip Antenna , giving approximately 0dB gain. Rated for wind gusts up to 175 mph.</p> <p>1" Support Pipe Required</p>	
<p><u>50046-xxx.xxxx</u></p> <p>Serial-Fed, Omni-Directional, with Ground Plane, High Band, 1" Mount, Stainless Steel, 138-174 MHz.</p> <p>This antenna includes a ground place section. Rated for wind gusts up to 175 mph.</p> <p>1" Support Pipe Required</p>	
<p><u>50259-xxx.xxxx</u></p> <p>Serial-Fed, Vertical Beam, High Band, 1" Mount, Brass 138-174 MHz.</p> <p>A 3 element YAGGI 8 dBd Gain, Mounts on 1" pipe. A folded radiator provides a direct ground path for lightning protection and static noise reduction.</p> <p>1" Support Pipe Required</p>	
<p><u>50077</u></p> <p>1/4 Wave Helical, Omni-Directional, High Band, BNC Connection, Rubber, 136-144 MHz.</p> <p>Injection molded 1/4 wave helical antenna High durability, High efficiency, Textured finish with strain-relief base.</p> <p>BNS Connection</p>	
<p><u>50155-xxx.xxxx</u></p> <p>Serial-Fed, Vertical Beam, High Band, 1" Mount, Alum., 138-174 MHz.</p> <p>This model A 3 element YAGGI 8 dBd Gain, Mounts on 1" pipe. A folded radiator provides a direct ground path for lightning protection and static noise reduction. Rated for wind gusts up to 175 mph.</p> <p>1" Support Pipe Required</p>	
<p><u>50261</u></p> <p>Semi-Fed, Omni-Directional, Low Band, 1" Mount, Fiberglass, 72-76 MHz.</p> <p>This dipole antenna, and gives approximately 2.5 dBd gain.</p> <p>1" Support Pipe Required</p>	

Receiving and Transmitting Antennas

Receiver Antennas:
<u>50057-xx.xx</u>
Serial-Fed, Omni-Directional, Low Band, 1.25" Mount, Alum., 72.02-75.98 MHz. This model is a two-element co-plane antenna, giving approximately 3 DB gain. 1 1/4" Support Pipe Required
<u>50053-xxx.xxxx</u>
Serial-Fed, Omni-Directional, High Band, 1.25" Mount, Alodined Alum., 138-174 MHz. This model includes a ground plane section and is a two-element co-plane antenna, giving approximately 3 DB gain. 1 1/4" Support Pipe Required.



Antenna Specifications:

Kci #	Antenna Type	Feed Type	Gain (dBd)	Directional	Ground Plane	Material	Mount	Band	Freq Range	Weight
50207	Co-Plane	Serial	3	Omni	Yes	Aluminum	1.25"	High	138-174 MHz	1.5 lbs
50053	Co-Plane	Serial	3	Omni	Yes	Alodined Aluminum	1.25"	High	138-174 MHz	1.5 lbs
50057	Co-Plane	Serial	3	Omni	Yes	Aluminum	1.25"	Low	72.02-75.98 MHz	8.0 lbs
50037	5/8 Wave Whip	Serial	3	Omni	Yes	Stainless Steel	1"	High	138-174 MHz	2.0 lbs
50038	1/4 Wave Whip	Serial	0	Omni	Yes	Stainless Steel	1"	Low	72.02-75.98 MHz	2.0 lbs
50046	1/4 Wave Whip	Serial	0	Omni	Yes	Stainless Steel	1"	High	138-174 MHz	2.0 lbs
50004	Co-Axial	Serial	0	Omni	No	Aluminum	1"	High	138-174 MHz	1.75 lbs
50259	Vertical Beam	Serial	8	Directional	No	Brass	1"	High	138-174 MHz	6.4 lbs
50155	Vertical Beam	Serial	8	Directional	No	Aluminum	1"	High	138-174 MHz	5.0 lbs
50026	Co-Axial	Serial	0	Omni	No	Aluminum	1"	Low 75	72.02-72.98 MHz	4.5 lbs
50001	Co-Axial	Shunt	0	Omni	No	Aluminum	1"	Low 75	72.02-72.98 MHz	4.5 lbs
50027	Co-Axial	Serial	0	Omni	No	Aluminum	1"	Low 75	72.02-72.98 MHz	4.5 lbs
50002	Co-Axial	Shunt	0	Omni	No	Aluminum	1"	Low 75	75.02-75.98 MHz	4.5 lbs
50077	1/4 Wave Helical	Serial	0	Omni	No	Rubber	BNC	High	136-144 MHz	0.5 lbs
50261	Dipole	Serial	2.5	Omni	Yes	Fiberglass	1"	Low	72-76 MHz	2.5 lbs

Receiving and Transmitting Antennas

Ordering Information:

KCi #	Model #	Description
50207-xxx.xxxx	KFCP-155	Receiving Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 3dBd Gain, High Band, 1-1/4" Mount, Aluminum, 138-174 MHz
50053-xxx.xxxx	KFCP-155A	Receiving Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 3dBd Gain, High Band, 1-1/4" Mount, Alodined Aluminum, 138-174 MHz
50057-xx.xx	KFCP-40A	Receiving Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 3dBd Gain, Low Band, 1-1/4" Mount, 72.00-75.98 MHz
50037-xxx.xxxx	KFANTOD	Transmitter Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 3dBd Gain, High Band, 1" Mount, Stainless Steel, 138-174 MHz
50038-xx.xx	KFANTOD-NGL	Transmitter Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 0dBd Gain, Low Band, 1" Mount, Stainless Steel, 72.00-75.98 MHz
50004-xxx.xxxx	KFCO-151A	Transmitter Antenna: Serial-Fed, Omni-Directional, 0dBd Gain, High-Band, 1" Mount, Aluminum, 138-174 MHz
50046-xxx.xxxx	KFANTOD-NGH	Transmitter Antenna: Serial-Fed, Omni-Directional, with Ground Plane, 0dBd Gain, High-Band, 1" Mount, Stainless Steel, 138-174 MHz
50259-xxx.xxxx	KFVB-150B	Transmitter Antenna: Serial-Fed, Vertical Beam, 8dBd Gain, High Band, 2/4" Mount, Brass, 138-174 MHz
50155-xxx.xxxx	KFVB-151A	Transmitter Antenna: Serial Fed, Vertical Beam, 8dBd Gain, High Band, 1" Mount, Aluminum, 138-174 MHz
50026-xx.xx	KFVB-35A	Transmitter Antenna: Serial-Fed, Omni-Directional, Unity Gain, Low Band, 1" Mount, Aluminum, 72.00-72.98 MHz
50001-xx.xx	KFCO-36A	Transmitter Antenna: Shunt-Fed, Omni-Directional, Unity Gain, Low Band, 1" Mount, Aluminum, 72.00-72.98 MHz
50027-xx.xx	KFCO-35A2	Transmitter Antenna: Serial-Fed, Omni-Directional, Unity Gain, Low Band, 1" Mount, Aluminum, 75.42-75.98 MHz
50002-xx.xx	KFCO-36A2	Transmitter Antenna: Shunt-Fed, Omni-Directional, Unity Gain, Low Band, 1" Mount, Aluminum, 75.42-75.98 MHz
50261		Transmitter Antenna: Serial-Fed, Omni-Directional, 2.5dBd Gain, Low Band, 1" Mount, Fiberglass, 72-76 MHz
50077	KFEXB-136	Transmitter Antenna: 1/4 Wave Helical, Serial-Fed, Omni-Directional, Injection Molded Rubber, High Band, BNC Connector, 136-144 MHz
91143	ANT-KIT	Antenna Wall Mounting Accessory Kit, For 1" Conduit and Antenna
91145	ANT-KIT-1	Antenna Wall Mounting Accessory Kit, For 1-1/4" Conduit and Antenna
50037-DTS		Specification Data Sheet

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions

57003

Antenna Accessories



PL-258 Female-Female Adapter
(KF P/N: 22022)



PL-259 Connector Solder-Type
(KF P/N: 22178)



Male BNC to PL-259
(KF P/N: 22519)



PL-259 Adapter (KF P/N:
22177)



BNC Adaptor (KF P/N: 22056)



BNC "Tee" Adapter (KF P/N:
22267)



PL-258 Tee Adapter (KF P/N:
22391)



Female BNC to PL-258 Adapter
(KF P/N: 22025)



50 Ohm 1 Watt Dummy Load
(KF P/N: 22049)

Features:

- Factory Assembled Cables with Pre-Installed Connector for the Antenna Side and Included Connector for the Panel Side
- Lightning Arrestor Matched to Antenna Frequency

Description:

Kingfisher Company, inc. Antenna accessories accommodate a wide range of installation for RG-58/U and RG-213/U based Antenna systems. Factory Assembled Cabled come from the Antenna Side PL-259 connector soldered on.

Installations:

- All installations shall comply with the Kingfisher Antenna Installation manual part # 75092

Antenna Accessories

Ordering Information:

KCi #	Model #	Description
22022		Adapter - PL-258 Female to Female
22025		Adapter - Female BNC to PL-258
22049		Dummy Load - 50 Ohm 1 Watt BNC
22056	31-2	BNC Connector - for use with 27127 (RG-58/U) coaxial cable and KFR-TI-20/52, STAR, or KFRTI-8S)
22062		Type N Connector - For use with 27127 (RG-58/U) coaxial cable and KFRA-C Receiver
22156		BNC Crimp Connector - for use with 27127 (RG-58/U) coaxial cable.
22177	83-185	PL-259 Adapter - Required when 22178 is used with 27127 (RG-58/U) coaxial cable, Solder Type
22178	83-1SP	PL-259 Connector - for use with 27127 (RG-58/U) or 27126 (RG-213/U) coaxial cables and antennas.
22267	31-208	Adapter - BNC "Tee" Adapter (For STAR, KFRTI-8S, or KFRTI-20/52)
22391		Adapter - PL-258 "Tee" Adapter (For KF1/KF3, KFRTI-WP-8, or KFAPT Transmitter)
22519		Adapter - Male BNC to PL-259
91143	ANT-KIT	Antenna Wall Mounting Accessory Kit, For 1" Conduit and Antenna
91145	ANT-KIT-1	Antenna Wall Mounting Accessory Kit, For 1-1/4" Conduit and Antenna
57003-RG-58		Factory Assembled Cable - 75' of 27127 (RG-58/U) cable with 22177/22178 Connector attached and extra 22056 Solder Connector included for assembly at panel
57003-RG-213		Factory Assembled Cable - 150' of 27126 (RG-213/U) cable with 22178 Connector attached and extra 22178 Solder Connector included for assembly at panel. Also included is cable adaptor (BNC to UHF) P/N 57402 for use at panel.
57096		Coaxial Cable Assembly - 20' of 27127 (RG-58/U) coaxial cable, with 22178/22177 connector/adaptor and 22056 connector (for use with KFRTI-20/52 or KFRTI-8S transmitters mounted on pedestal assemblies)
57105		Coaxial Cable Assembly - 20' of 27127 (RG-58/U) coaxial cable, with 22178/22177 connector/adaptor (for use with KF1/3, KFRTI-WP-8, and KFAPT transmitters mounted on pedestal assemblies.
57196		Adapter Cable - RG-213/U to BNC
57198		Adapter Cable - PL-258 to PL-259
57402		Cable Adaptor BNC to UHF
91039- □□□.□□□□		Lightning Arrestor Kit - Required for single receiver (For KFRA-C)
91038- □□□.□□□□		Lightning Arrestor Kit - Required for dual receiver (For KFRA-C)
91016- □□□.□□□□		Lightning Arrestor Assembly - (For STAR, KFRTI-8S, KFRTI-20/52, IRAC-S, APT-S or KF1/KF3 transmitters and MCR ² Receiver)
91076- □□□.□□□□		Lightning Arrestor Assembly - (For KF1/KF3, KFRTI-WP-8, or KFAPT transmitters)
91510		Connector Kit - Includes one 22178 connector one 22177 adapter, and one 22056 (For use with KFRTI-20/52, STAR, or KFRTI-8S transmitters when 27127 (RG-58/U) is used.
91511		Connector Kit - Includes two 22178 connectors, and two 22177 adaptors. (For use with KF1/3, KFRTI-WP-8, or KFAPT transmitters when 27127 (RG-58/U) is used.
57003-DTS		Data Specification Sheet

Antenna Accessories

Ordering Information:

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Drawings and Diagrams

CABLE DIAGRAMS:

FACTORY ASSEMBLED CABLE 57003-RG58 AND 57003-RG-213



ADAPTER CABLE 57198:



ADAPTER CABLE 57196:



Antenna Wall Mounting
Accessory Kit
(Conduit not included)
(KF P/N 91143/91145)