Made in the U.S.A

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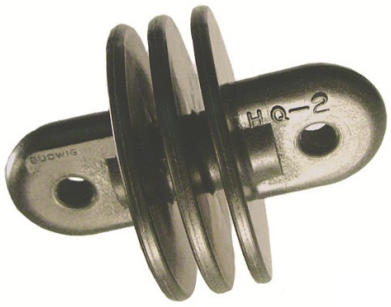
HYE-QUE Antenna Connector and Insulators



HQ-2

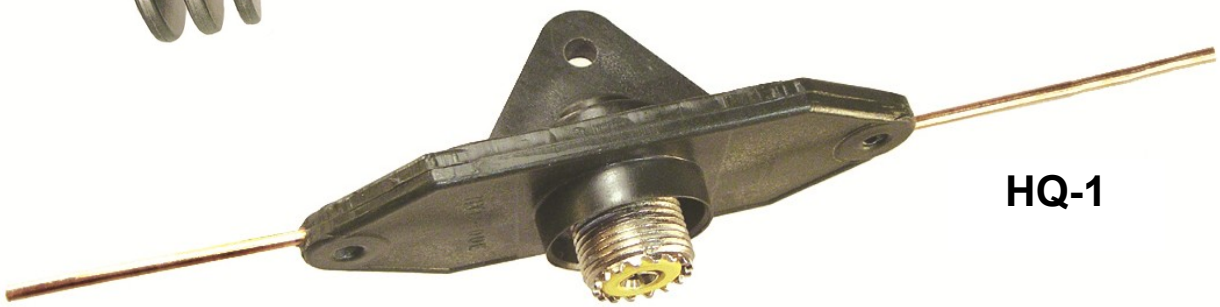
The Budwig HQ-1 Antenna connector is for use by ham radio operators and others in fabricating an inexpensive and efficient dipole antenna. Designed for durability and light weight, this connector provides a coax SO-239 socket for accepting a PL-259 feed line plug. The one piece molded body offers weather tight construction and provides a drip shield to protect the coax fittings. Full legal power capacity.

The Budwig HQ-2 Antenna Insulator is designed for use with Budwig HQ-1 Connector when constructing a dipole antenna assembly. Deep ribbed construction provides increased surface path to reduce power leakage. Light weight and durable.

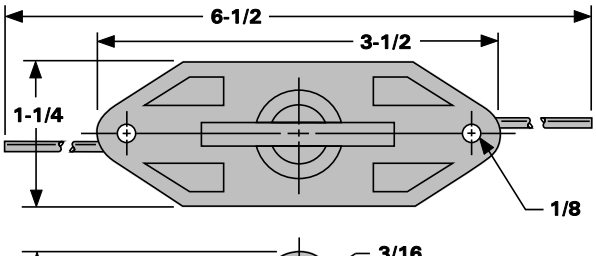
Material: ABS Copolymer, 20% Glass filled

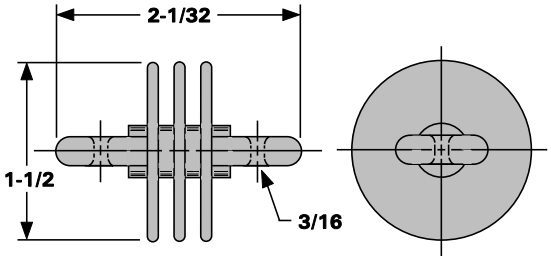
Stock Color: Green (Olive Drab)

Parts are **RoHS** Compliant.



HQ-1





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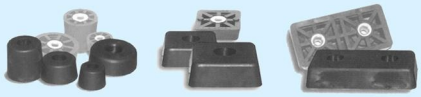

BUDWIG
Molded Products

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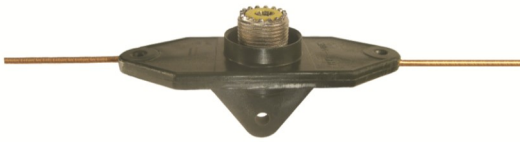
HYE-QUE Antenna Connector Specifications



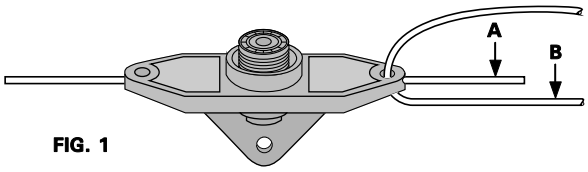


FIG. 1

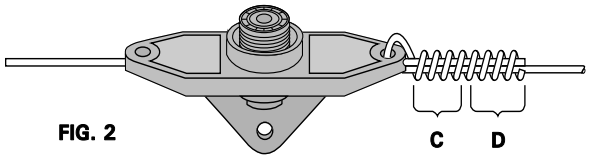


FIG. 2

SPECIFICATIONS		
Material: ABS Copolymer, 20% Glass filled		
Properties		**A.S.T.M. Test Method**
Tensile Strength	18,000 psi	D638-D651
Compressive Strength	30,000 psi	D695
Flexural Strength	34,000 psi	D790
Dielectric Strength	500-600V	D149
Dielectric Constant at 60Hz	2.1	D150
Dielectric Constant at 10^3 Hz	2.1	D150
Dielectric Constant at 10^6 Hz	2.1	D150
Dissipation (Power) at 10^6 Hz	.0003	D150
Effect of Sunlight	NIL	—
Effect of Weather	NIL	—
Service Life	Indefinite	—
Internal Capacity	NIL	—

Wire Lengths for 1/2 Wave Dipole Antenna

To determine the correct **Di-Pole Antenna WIRE LENGTHS** visit the **On-Line** and **Downloadable** CALCULATORS located at any of the web sites below:

www.csgnetwork.com/antennaedcalc.html

www.hamuniverse.com.dipivcal.html

www.radiobrandy.com/dipole1.html

1. Refer to a Wire Length Calculator, select the frequency within the band in which you usually operate. After calculating and determining the wire length, cut two wires, each to the length indicated. Make a right angle bend exactly three inches from both ends of both wires. If you propose to operate the entire band, cut both wires to the length indicated for the approximate center of the band.
2. Insert one three inch end of one of the antenna wire into one end hole of the connector as shown in Figure 1, twist this three inch end around wires A and B as shown in Figures 1 and 2.
3. Repeat with the other antenna wire at the opposite end hole of the connector.
4. Hold pliers at C in Figure 2 and solder at D.
5. Attach insulators at the other three inch ends of the antenna wires, solder, using pliers as a heat sink as before.
6. Attach a PL-259 plug to the coax cable, affix the plug to the connector.
7. If desired, the connector may be used to make an "Inverted Vee" antenna. Shorten the wires by 6%, use the top hole in the connector to support the antenna. The low antenna ends should be at least eight feet off the ground.
8. Two or more additional antenna wires, cut for additional bands may also be attached to the connector as previously outlined. These additional antenna wires may be at an angle to the other wires, or droop slightly under them, but they must not touch.
9. In all cases, the coax feeder line must be at least as long as one of the longest antenna wires used. Refer to Wire Length calculated results.

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