G0UIH 'Q-Master' - 5/8 Wave High-Power 10/11m Vertical

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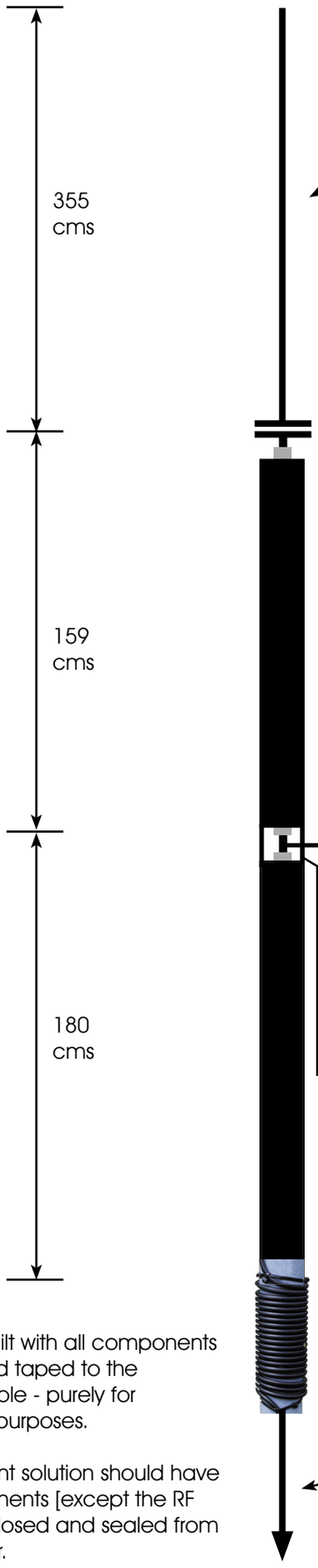

16 AWG PVC Coated Wire [Good for 1.5kw]

High Voltage 'Doorknob' Style
Capacitor. 10pf rated 10kV - Good for 5kw
Connect to Coax Center Core
Braid is Left 'Open'
[Cut Braid About 4-5mm to Prevent Any Flash-over]

RG8 Mini Coax [0.80 Velocity Factor] - Good up to around 1.5kw

Braid and inner core are both stripped back.
Connect the 'Q' Section [does the impedance matching]
Center Core to Center Core and Braid to Braid.
Braid and Center Core continue up the antenna with no breaks.

88cms Coax 'Q' Section:
RG142 for over 2kw [velocity factor 69.5]

Braid and center core are soldered together

Coaxial RF Choke:
RG8 Mini: 20 turns around a 2 inch former [We've used fibreglass]

Coax:
[Any length] back to the shack

Antenna built with all components external and taped to the fibreglass pole - purely for evaluation purposes.

A permanent solution should have ALL components [except the RF choke] enclosed and sealed from the weather.

Notes: Antenna built June 2021. With a 16AWG top section, 10kv capacitor and an RG142 matching Q-Section. Antenna was key down at 1500w for 3 minutes without issues.