Getting Coax into the Shack

Exploring different methods of routing coax from antenna to radio

John KJ6WKT
SLV ARC April 1 2022

The problem

Antenna is outside

My radio is inside a comfortable shack

Version 0.1 : Screen Tent

Nearby power

No bugs!

3 Seasons

Version 0.2

Open sliding glass door

Run cable through open door

Carefully close sliding door

Version 0.2 : Pros/Cons

Pros

- Worked, I am in my comfy shack
- No modifications to shack/house
- Lightning disconnect when not in use

Cons

- Setup time
- Routing in shack
- Bugs/weather enters through partially opened door

Version 1.0: Flat jumper

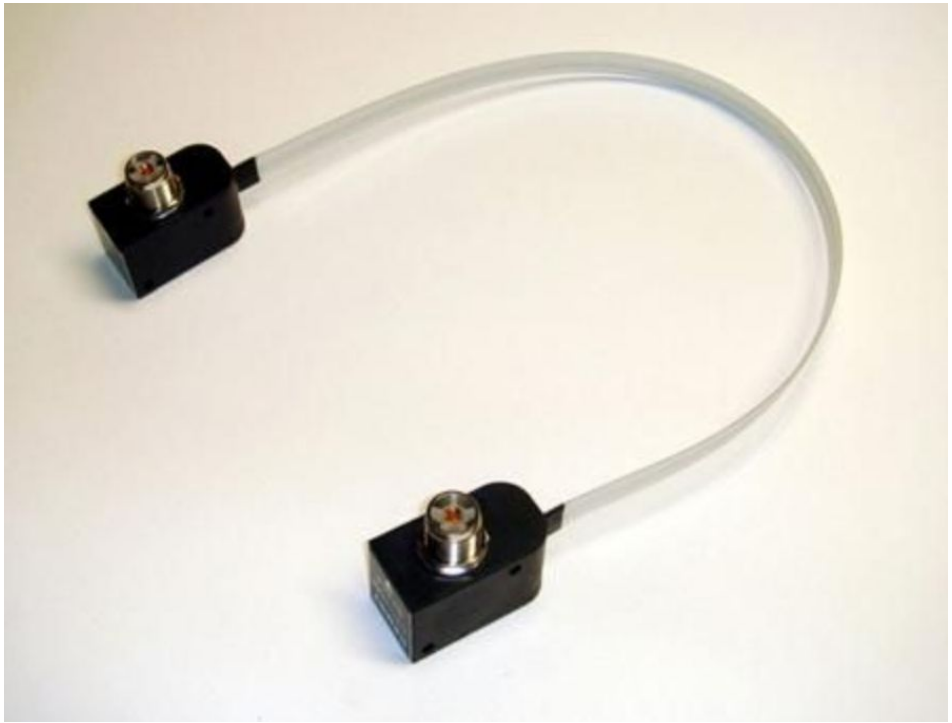
2 years

Sliding door eventual downfall

Single coax

Routing inside shack

v1.1: add bumper stop to protect



Version 1.1: Flat jumper

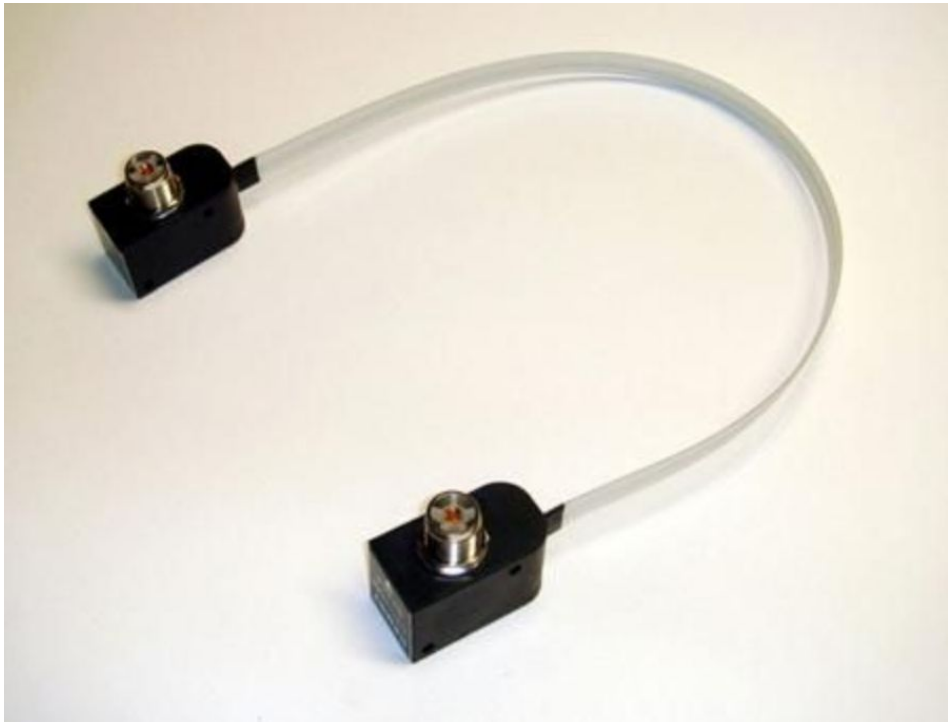
Buy another one

$60

RG6? (< $10)

Single coax

Routing inside shack



Exploring Alternatives : Goals

Weather/bug/rodent resistant

Low visual impact

Minimize structural modifications

Chafing/wear (last > 2 years)

Multiple cables (HF, UHF/VHF)

Under Eaves

Under Eaves

Weather Resistant

Can be made weather/rodent resistant

Requires drilling exterior walls

Skylights

Minimal Drilling

Can be weather resistant

Bend radius

Dryer Vent

Good weather resistance

Can be rodent resistant

Can be painted

Uses existing vents

Maintains some venting utility

Can be made rodent resistant

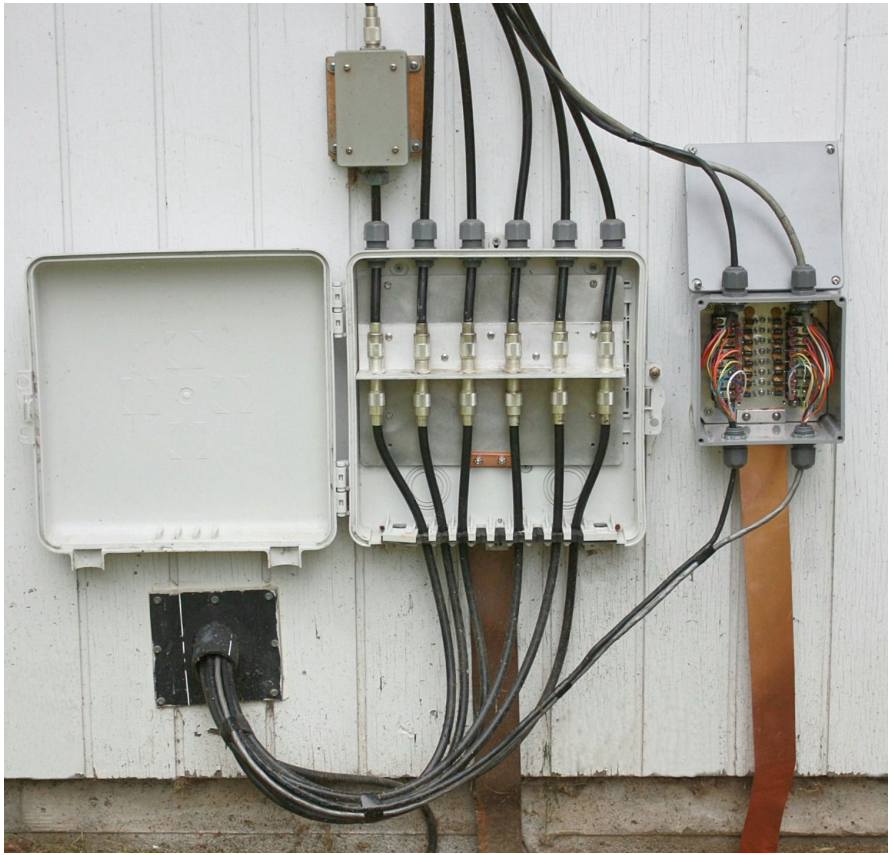
Visually unappealing

boxes

Weatherproof enclosure

Visually better for larger installations

Grounding strap



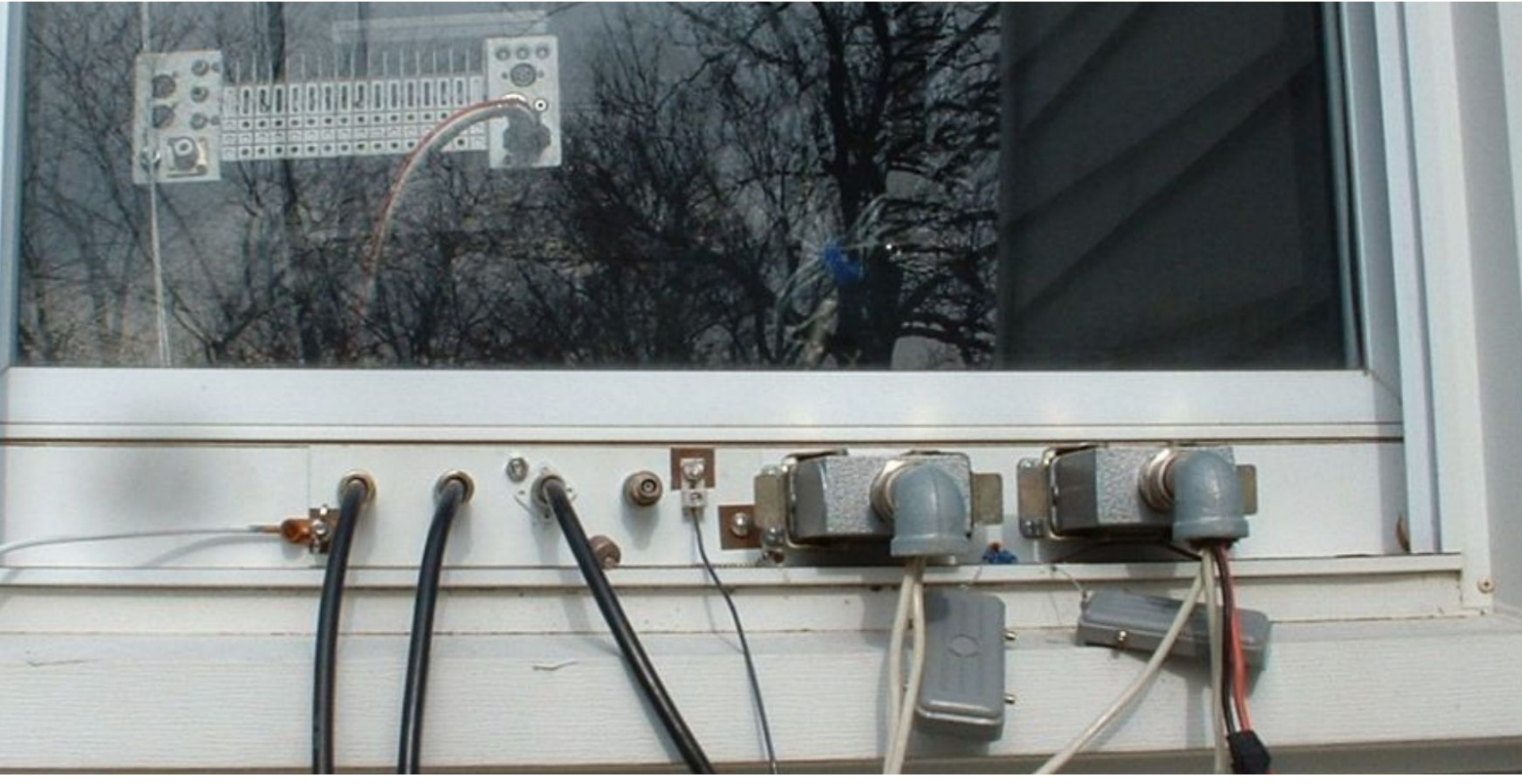
Window Bulkhead

48” window size

No drilling through walls

Impares Window security and usability

Revertable



Trailers and RVs


IS CO
10-125 VOLT A.C. 60 HZ
CYCLES) SERVICE & 30
PERE SERVICE. DO NOT
CONNEC TO HI


CABLE/SAT LITE
SEWAGE HOLDING TANK

The Old Tech Guy
KB9RLW

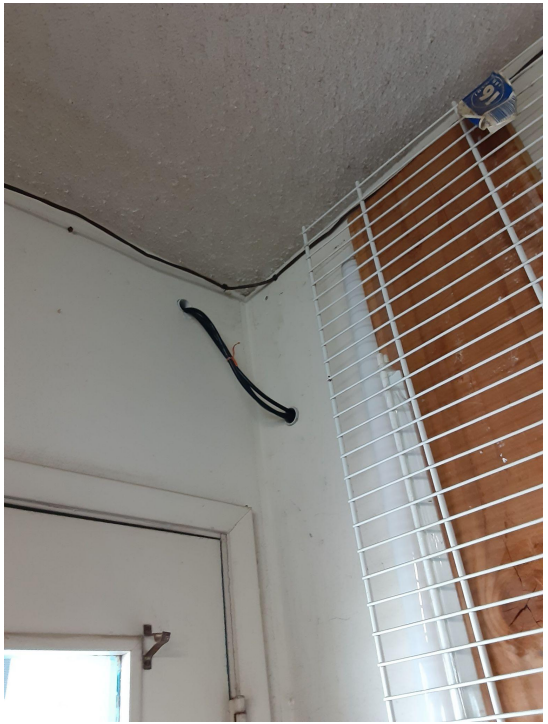
Coax is inside, now what?

Routing to the station

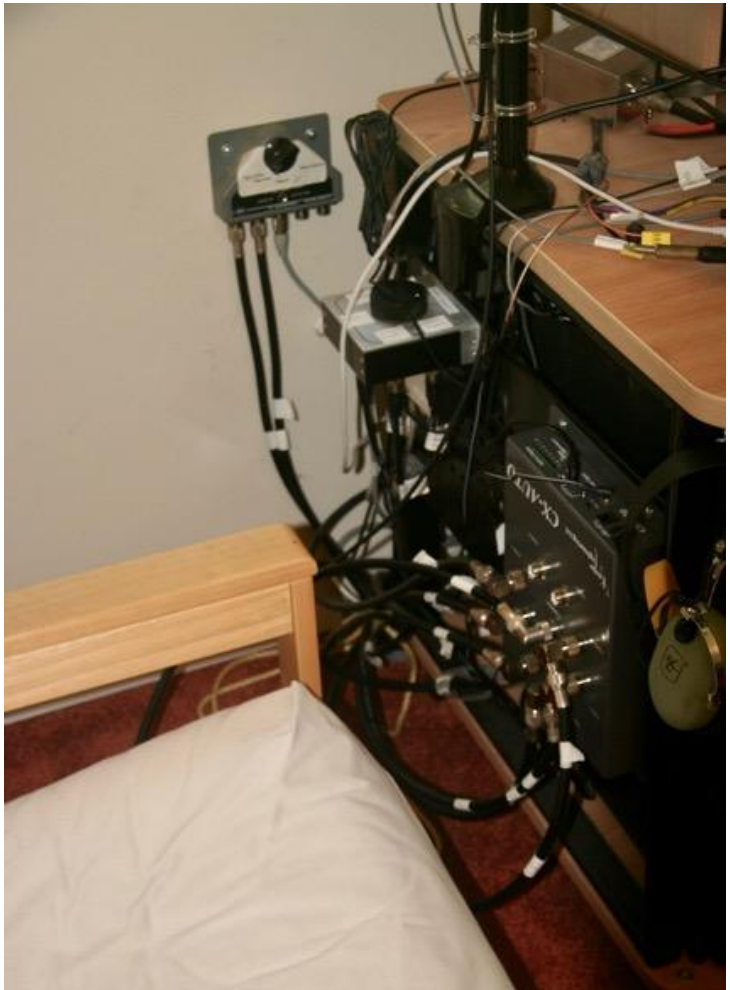
Weather (Cold, Heat)

Routing

Routing through walls



Insulating



Discussion

How do you get coax inside?